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## INSIDE DOPE

by GEORGE F. TAUBENECK

Story of the Week  
C.E.D. Speaks Again  
Put Off Until Tomorrow  
How to Protect the Dollar  
Yes, It Minds the Baby  
Got Real Life Test

## Story of the Week

Most baseball fans have been pulling for the Boston Red Sox to win the American League pennant during the 1946 season; and almost nobody doubts that they will win the World Series.

But even though Owner Tom Yawkey and Manager Joe Cronin should be sure by now that they have the best club in either circuit, these two gents have had so much bad luck in past years that they're still jittery.

H. G. Salsinger of the *Detroit News* cites, as an example of Cronin's cageyness, the fact that he hesitates always about announcing his line-up in advance, and that he particularly refuses to announce his selection of pitchers.

In Detroit, it is the job of one John Connelly to visit the visiting team's clubhouse before the ball game begins to get the line-up for today and the Battery for tomorrow. Boston's Joe Cronin, Connelly reports, usually lied blandly by saying that the next day's pitcher would be Butland (a bull-pen thrower who seldom appeared in a game).

One day late in August Connelly approached Cronin and asked the customary question.

"Tomorrow's pitcher will be Bagby," answered Jittery Joe.

Connelly swallowed his chewing gum in amazement.

"What happened to Butland?" he inquired.

"Butland has a sore arm."

"Huh!" ejaculated Connelly. "Got it from overwork, no doubt!"

## C.E.D. Speaks Again

To curb inflation, further drastic cuts or postponements in Federal Government expenditures are called for by the Research and Policy Committee of the Committee for Economic Development. (This institution has achieved the respect of almost everyone—labor, management, politicians, and consumers—for its objectivity and fairness.)

The Committee also stresses the need for greater production to relieve shortages; plus restraint in setting prices, wages and salaries; and self-discipline in spending by individuals, businesses, and state and local governments.

While commending the Federal economies called for in the President's budget review of Aug. 3, the C.E.D. insists that:

"The proper goal of Federal fiscal policy today is the largest attainable excess of receipts over payments. . . . We recommend as a minimum goal of fiscal policy the creation of a \$5 billion excess of receipts over payments, and if possible a \$6 or \$7 billion excess, instead of the \$2.8 billion now contemplated.

"Some important items of the budget cannot be cut—interest, tax refunds, and social security. To achieve the \$5 to \$7 billion excess of receipts by means of expenditure reduction will require heavy cuts in other items. Heroic measures will be needed—but the times call for heroic measures.

"The reductions in Federal expenditures must not only be large; they must also take effect promptly. There is a natural tendency for Government agencies to defer action in the hope that perhaps the cuts may be avoided. But the urgency of our

(Concluded on Page 13, Column 1)

Detroit Maps Drive  
For Law to Curb  
'Gyp' Repair Firms

DETROIT—Stirred to action by a tide of complaints that refrigerator, appliance, and other personal service repairmen are gouging the public, the Better Business Bureau here submitted a proposed ordinance to the city's corporation counsel last week end which is intended to correct the situation.

The proposed ordinance would require licensing and bonding of all service concerns which take possession of the customer's merchandise, according to W. H. Carrico, special service agent of the Bureau.

Mr. Carrico is appealing to all legitimate service firms to get behind the ordinance and help clean up the business.

During the past week end, 15 representatives of local service firms were called to the county prosecutor's office to answer complaints against them, Mr. Carrico said.

In the past month, the Bureau has

(Concluded on Back Page, Column 1)

Lauderall Ceilings  
Start at \$279.95

DETROIT—The "Lauderall," an automatic washing machine manufactured by F. L. Jacobs Co. here, will retail at three-zone ceiling prices of \$279.95, \$282.95, and \$289.95.

OPA approved these and wholesale maximum prices in Order 74, recently issued under RMPR 86.

Distributors' ceilings for sales to dealers were fixed as follows:

Model	Zone 1 Each	Zone 2 Each	Zone 3 Each
Lauderall:			
6 or more machines	\$167.15	\$169.75	\$174.40
3 to 5 machines	171.60	173.95	178.65
Less than 3 machines	175.20	177.75	182.50

The order set these maximum prices for sales by dealers to ultimate consumers:

Model	Zone 1 Each	Zone 2 Each	Zone 3 Each
Lauderall	\$279.95	\$282.95	\$289.95

These ceilings include delivery and installation. Installation was defined as including "setting up the machine and bolting it to the floor; making the hot and cold water connections; and providing two ½-inch shut-off valves and two pieces of rubber hose, each up to 4 ft. in length, for water lines, and up to 5 ft. of drain hose, and up to 5 ft. of wire for connection to electric facilities to be provided by the purchaser."

The agency said the ceilings include all the increases allowed by section 15 or 16b of RMPR 86.

A cooperative advertising plan intended to encourage and assist Lauderall dealers in staging essential local advertising programs was announced recently by the company. Edward A. Ash, director of the company's appliance division, said a fund of advertising allowances on a per unit basis of \$2 each from the factory and the distributor and \$4 from the dealer will be spent for newspaper, radio, and billboard and sign advertising.

'41 Water Heater Prices  
Up 12% for Westinghouse

MANSFIELD, Ohio—An optional increase of 12% in the Oct. 1, 1941, prices on its line of electric water heaters and repair parts has been granted Westinghouse Electric Corp.

Adjusted prices were announced by OPA in Order 331, Revised Supplementary Order 119.

The order authorizes all resellers—except manufacturers who purchase the commodities for use in the manufacture of other products—to add to their current ceilings the actual percentage increase in cost resulting from the 12% increase.

Nema Sees Top  
Output Delayed  
Until Spring

NEW YORK CITY—The combined effects of material shortages, manpower shortages, and the lowered productivity of workers will keep the electrical manufacturing industry from reaching full output until next spring at the earliest, and probably not until July, 1947, believes the National Electrical Manufacturers Association (Nema) following a survey of 100 member companies.

Small motors continue to be critical, with production now running at from 50% to 80% of capacity in various plants, according to this survey. Nema points out that even though most companies in this field are producing far above their 1941 output, the unprecedented demand keeps these small motors on the critical list, which is felt particularly by appliance manufacturers.

"Production is a touch-and-go proposition with first one material shortage then another holding us up," said one manufacturer of small appliances. "Motors still continue to be one of our bottlenecks. Our volume of production in the last six months of this year will run between 60% and 80% of what it was in the like period of 1941."

A manufacturer of ranges, refrigerators, and water heaters told Nema that production in his plants for the last half of this year will be at about 50% of the 1941 rate.

"From present indications," he declared, "with shortages of labor, material, and components, it looks as though the earliest we can anticipate full-scale production will be some time in March or April, 1947."

Electrical wiring items are among

(Concluded on Page 4, Column 3)

2 Zenith Boxes, 1 Monitor  
Get OPA Ceiling Prices

WASHINGTON, D. C.—Maximum prices for one refrigerator manufactured by Monitor Equipment Corp. and two Zenith models produced by Marshall-Wells Co. have been announced by OPA.

Retail ceiling of \$199.95 was established for Monitor's RC7 refrigerator through Amendment 23 to MPR-598.

Retail prices of the two Zenith models are as follows:

Model No.	Zone 1	Zone 2	Zone 3	Zone 4
KZ746	\$155.95	\$157.95	\$160.95	\$162.95
KZ1746	190.95	192.95	195.95	197.95

Packaged Promotion Program Launched  
By Westinghouse at Detroit Store

MANSFIELD, Ohio—Westinghouse Electric Appliance Division has begun distribution of a packaged promotion program to aid dealers in introducing and merchandising its combination kitchen-laundry composed of more than a score of appliances.

T. J. Newcomb, sales manager, said the promotion outlines detailed plans for capitalizing on the display of the kitchen-laundry, from the pre-opening build-up to continuing follow-ups.

Several midwest stores have planned to utilize the program in the opening of their appliance departments. First of these openings was staged Sept. 9 when Crowley-Milner Co. in Detroit showed off its new, first-floor appliance department to the public.

Other stores due to feature the Westinghouse kitchen-laundry in their new appliance sections include: Kaufman Strauss, Louisville, Ky.; Shillito's, Cincinnati; Home Store, Dayton, Ohio; May Co., Columbus, Ohio; O'Neil's, Akron, Ohio; Boston

Pig Iron Ratings  
For Housing Use  
Are Continued

WASHINGTON, D. C.—The Certification Plan which aided manufacturers of housing products and railroad brake shoes in obtaining pig iron during the third quarter has been extended through the fourth quarter, according to the Civilian Production Administration.

Similar certification for iron castings has been dropped. However, manufacturers of a lengthy list of housing products will continue to receive CC ratings under Direction 18, to Priorities Regulation M-28. This, it is feared, may seriously curb production of condensing units during the rest of the year, perhaps as much as 50%, as was pointed out in the Sept. 2 issue of AIR CONDITIONING & REFRIGERATION NEWS.

Meanwhile, in a move intended to stimulate the production of scrap iron, which is critically short, OPA Price Administrator Paul Porter has announced a six-point price program for scrap which provides incentive increases of from \$2.50 to \$7 per gross ton in the ceiling prices of prepared grades of cast iron scrap.

A three-point program to increase pig iron production was also outlined by members of the Steel Labor Advisory Committee at a recent meeting with CPA and the National Housing Agency.

Besides continuing the Certification plan for pig iron and the CC ratings under Direction 18, CPA has also issued Direction 16 to PR-3 which prohibits any manufacturer who receives a rated order from his customer from extending this rating to purchase pig iron. Priorities assistance for pig iron will be assigned only under Direction 13 to M-21.

The six-point program announced by OPA includes:

(1) Ceiling prices are established for the first time on sales of unprepared scrap to scrap dealers from industrial or governmental sources. These ceilings are at levels formerly applied to sales of similar materials to consumers or their brokers and will give dealers a basic gross margin of \$3.50 per ton.

(2) Ceilings on sales of unprepared scrap to consumers or their brokers have been reduced by 50 cents a ton, providing a differential for dealers to insure the flow of scrap through this normal channel.

(3) The purchase or sale of scrap on condition that the buyer deliver any other commodity to the seller is prohibited.

(Concluded on Page 4, Column 1)

NHA Clarifies  
Dealer Rules  
On Priorities

Dealers Have to Accept  
Orders Even If They  
Can't Deliver Now

DETROIT—Further clarification of action by the National Housing Agency bringing stoves, ranges, space heaters, water heaters, stokers and oil burners under the housing priority system was received here as copies of Schedule B of Priority Regulation 33 became available.

Schedule B says: "A distributor need not make more than 75% of his deliveries on any item on Schedule A [which includes the items listed above] on rated purchase orders in any calendar month. (The word 'distributor' as used in this schedule includes anyone who makes the material when he sells direct to a user).

"A distributor must not turn down a rated order merely because he does not have the material ordered in stock. He must accept the order, and keep it in hand to fill it as soon as he can, and he must tell his customer how soon he expects to be able to fill it."

As reported in the NEWS last week, this means that if a dealer receives 100 ranges, for example, during a calendar month, and receives in that month 100 rated orders and 25 non-rated orders, he can fill 75 rated orders and the 25 non-rated orders. He merely carries over the 25 additional rated orders for fulfillment in the next calendar month.

Effective Sept. 10, Priorities Regulation 33, issued by the Civilian Production Administration, was amplified and superseded by Housing Expediter Priorities Regulation 5. This action, however, changes nothing as far as the dealer is concerned.

(Concluded on Back Page, Column 2)

Appliance, Auto Prices  
Have Hit Peak, Says OPA

WASHINGTON, D. C.—Prices for household appliances and automobiles have generally reached their peak, declares Deputy Price Administrator Geoffrey Baker of OPA.

"For certain makes and models (of autos) there may have to be further limited price increases. But we don't look for any more general raises," he said.

This also applies to refrigerators, washing machines, vacuum cleaners, and similar items. "In general they will stay at the prices they are now," he added.

Tito TOO Hot, So U.S.  
Holds Refrigeration

WASHINGTON, D. C.—Because William G. Williams, consulting engineer here, objected so strenuously when he discovered that the government was sending 80 war-surplus ice machines to Yugoslavia after that country had shot down two American airplanes and killed five flyers, the War Assets Administration has halted the deal, temporarily at least.

Mr. Williams was really annoyed and his heated calls to State and Treasury department officials as well as the WAA apparently convinced the bureaucrats that this was worth investigating. Mr. Williams also found out UNRRA was planning to ship five refrigerated barges, listing at \$44,880 each, to Yugoslavia.

This shipment has been delayed.



## Thermal Co. Names Them to Key Posts



H. J. STEEGE  
Treasurer

E. F. KING  
Executive Vice President  
Secretary

H. F. WALLACE  
Vice President

### Steege, Wallace, King Fill Executive Positions As Operations Expand

ST. PAUL—Expanded operations at The Thermal Co., Inc., wholesale distributor here, have necessitated three additional appointments to the official staff, according to President H. W. Small.

E. F. King has been named executive vice president and retains his former office as secretary, while H. J. Steege assumes the duties of treasurer.

Appointed vice president in charge of merchandising activities, H. F. Wallace will supervise both the sales and procurement departments, Mr. Small announced.

### House to Head Mueller Refrigeration Sales At Philadelphia Office

PHILADELPHIA—Fran. F. House, for many years active in the refrigeration industry, has been placed in charge of refrigeration sales at the Philadelphia office of Mueller Brass Co., Port Huron, Mich.

This move is part of a shift in operations at Mueller's Philadelphia office which has set up three separate sales divisions for fabricated and mill products, streamline pipe and fittings, and refrigeration.

Mr. House, who also covers Harrisburg and adjoining cities, is giving lectures and demonstrations to trade schools on soldering and the proper use of refrigeration materials.

### Laboratory at Syracuse U. Will Be Air Conditioned

SYRACUSE, N. Y.—Plans to provide a new air conditioned room with close temperature regulation for the new ordnance gage laboratory established by the War Department at Syracuse University have been disclosed by Dean Louis Mitchell, dean of the College of Applied Science. Dean Mitchell values equipment in the new laboratory at \$50,000.

"Instruction in the use of gages will be given to all students in engineering at Syracuse University, where it will be co-ordinated with instructional work in the material testing laboratory and machine shop," the dean asserted.

Manufacturers in Syracuse and Central New York can send their own gages to the laboratory for calibration against those of known accuracy, Dr. Mitchell revealed. He also indicated facilities of the laboratory will be used by an advanced ordnance unit of ROTC when such a unit is established at the university.

### Refrigeration Equipment Firm to Open Showroom

PHILADELPHIA—Automatic Appliance Service will open a new showroom in South Philadelphia on or about Oct. 1, according to Jack E. Gilman, service department manager.

The firm, which has been in the refrigeration servicing and installation field for eight years, will merchandise Sunroc water coolers, Nolin bottled beverage coolers, Paley frozen display cases, and other types of refrigeration equipment, Mr. Gilman said. L. B. Slater will manager the sales department.

### Plans Completed for 9th Annual Convention Of RSES Illinois Group

CHICAGO—Ninth annual convention of the Illinois Refrigeration Service Engineers Society will be held Saturday and Sunday, Sept. 21 and 22, at the Hotel Stevens here.

Herman Goldberg, manufacturers' representative, has also scheduled his annual party for the refrigeration industry, usually held in December, at this time. A band and floor show will feature the party, to be held Saturday night, Sept. 21, in the North Ballroom of the Stevens.

Although the R.S.E.S. meeting does not officially open until 10:30 a.m. Saturday, a special "Information Please" session will be conducted Friday evening, Sept. 20, by P. B. Reed, manager of Perfex Corp.'s refrigeration division and author of the weekly column "Refrigeration Problems" which appears in AIR CONDITIONING & REFRIGERATION NEWS.

Five papers will be presented during the two-day session. These include discussions of "Parts Wholesaler-Service Man Relationships" by Jack Glass of Chase Refrigeration Supply; "Low Temperature Expansion Valve Problems" by F. Y. Carter of Detroit Lubricator Co.; "Shall the R.S.E.S. Broaden Its Scope?" by Herman Goldberg; "Efficient Air Conditioning Service" by M. B. Goddard, Carrier Corp.; and "Getting Down to Business" by Waylan Clark of Utilities Engineering Institute.

Annual banquet of the group will be held at 6 p.m. Saturday in the Tower Ballroom on the 29th floor of the Stevens with H. T. McDermott, international R.S.E.S. secretary as the principal speaker. After the banquet the group is invited to attend the Goldberg party.

Final session of the meeting will be held Sunday morning.

### Capital Study Reports Water Heater Sales Up; Other Appliances Scarce

WASHINGTON, D. C.—Retail sales of electric water heaters in the District of Columbia and two Maryland counties during the first half of 1946 were nearly double those for the like 1941 period, according to the Electric Institute of Washington.

It reported heater sales jumped from 375 in 1941 to 709 this year. At the same time, the Institute said scarcities held sales of refrigerators, ranges, washers, and ironers 50% or more below prewar levels.

The Institute found refrigerators the scarcest item, less than a third as many being sold the first six months this year as in 1941. Sales of ranges and washers were said to have been only about one-half the prewar level, and those of ironers less than half.

Radio sales exceeded 1941 records by about 4,000, according to the Institute, "but practically all of this was in small table models." It said very few consoles have been sold and even fewer combinations.

Vacuum cleaners were reported to have "held their own."

The figures were taken from a consolidated sales report based on data filed with the Potomac Electric Power Co. by wholesale members of the Institute and covering retail sales in the District of Columbia and Prince George and Montgomery counties, Maryland.

**"Your Method  
Solves the Parts  
Problem -"**

*Said the Distributor to the LEHIGH TEAM*

Necessary parts inventory cut 50% or more by interchangeability of parts 1/4 H.P. to 1 H.P.—and 1 1/2 H.P. to 5 H.P. Less investment—much easier servicing!

# Lehigh

## HEAVY DUTY CONDENSING UNITS

for all commercial uses, low, medium and high temperatures. America's most modern equipment. Write for newest data sheets.

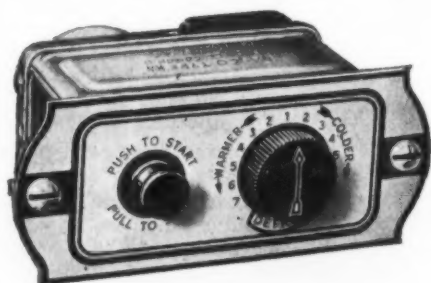
**COMPLETE LINE TO  
INCLUDE 1/4 H.P. to 5 H.P.**

*Lehigh Foundries, Inc.*

PLANT: LANCASTER, PA.

LEHIGH "M&E"  
1/3 H.P.  
HEAVY DUTY

## TAKE A SHORT CUT TO INCREASED BUSINESS Install RANCO Controls



Type KWS, General Replacement

Take a short cut to increased business—don't repair—replace with Ranco Exact or General Replacement Controls. There's more profit for you when you install a new Ranco Control. There's greater satisfaction for your customer in a replacement that will give him guaranteed, long, trouble-free service. Save time—don't repair—replace.

*Ranco Inc.*

Columbus 1, Ohio

### Minneapolis-Honeywell Housing Survey Shows 90% Pay \$50 or Less Monthly

MINNEAPOLIS—An analysis of the value of homes of all types in the United States finds approximately 90% in a \$50 and under rental classification, a survey just completed by the Minneapolis-Honeywell Regulator Co. discloses.

Of the nation's 37,000,000 homes only 3,500,000 are in the \$50 and up group, C. B. Sweatt, executive vice president, said upon completion of the study undertaken to determine demand and distribution of various types of heating and automatic control equipment.

Approximately 30,000,000 or 80% of the nation's total, are single family structures, he stated.

A geographic breakdown of the survey showed that 2,559,000 or 74% of the homes classed in the \$50 and up bracket are located in the north, 511,000 or 15%, in the south, and 370,000, or 11%, in the west.

Although the new home building program is slowed because of material and manpower shortages, Mr. Sweatt said that an average of estimates by governmental and private experts indicates that about 975,000 dwelling units will be built each year when the building program finally gets into full swing. Roughly 700,000 of these homes will be centrally heated, he estimated.

### Allison Says California RSES Will Develop Statewide Code

LOS ANGELES—A standard statewide code will be developed by the Refrigeration Service Engineering Society of California, William W. Allison, state president, has announced.

*It's a  
REVELATION  
—that's all!*



- ★ Exclusive Dealer Franchise
- ★ Now in quantity production
- ★ All sizes: Industrial and Commercial
- ★ The last word in...

**ELECTRIC  
WATER  
COOLERS**

*Revelation Company*

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Interstate Engineering Corporation  
2600 Imperial Highway  
El Segundo, California

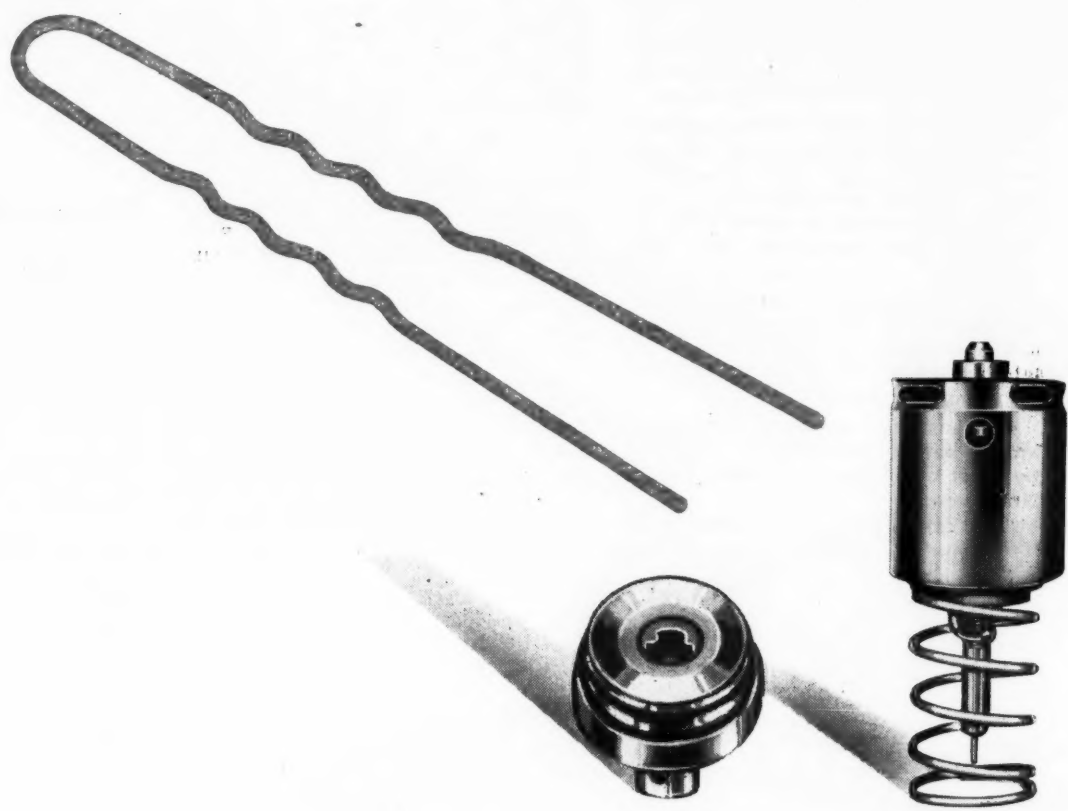
9 feet away, Thermo? You're sure about that?

Absolutely, Scruffy. Locate the Tenney TS-1 anywhere you want to put it. It'll work all right!

Remotely located for convenience is one of the advantages servicemen like about a Tenney TS-1 Thermostatic Expansion Valve. There's no feeler bulb to worry about. Complete details in Bulletin TV46. Send for a copy.

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Manufacturers of Automatic Temperature, Humidity and Pressure Control Equipment





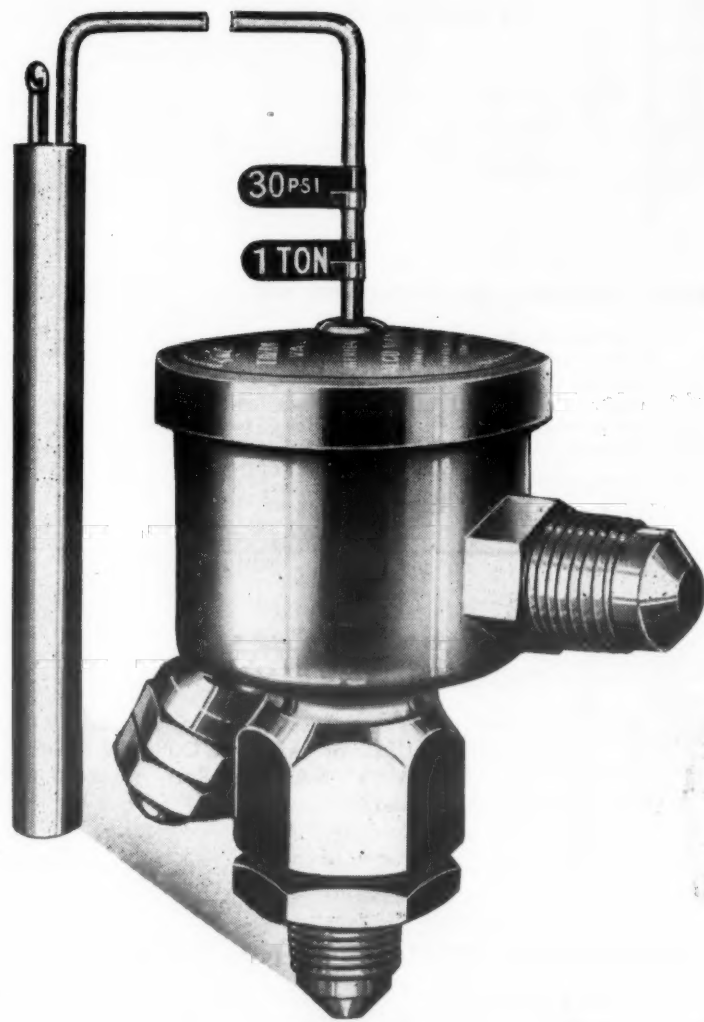
# INTERCHANGEABLE

## THE NEW ALCO THERMO-LIMIT VALVE

**20** combinations of capacity and pressure-limit—all in one compact control! Both cage assembly and pressure-limiting cartridge are quickly interchangeable in the field. That means fewer valves to carry in stock and to the job—a big saving in time and trouble.

The ALCO THERMO-LIMIT VALVE is a "safety" valve that limits pressure to prevent motor overload. It is liquid charged for positive control in any location and position.

Available at your wholesaler's for smaller capacity commercial refrigeration. Ask for our Bulletin 152.



Designers and Manufacturers  
of Thermostatic Expansion  
Valves; Pressure Regulating  
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Float Valves; Float Switches.

# ALCO VALVE CO.

853 KINGS LAND AVE. • ST. LOUIS 5, MO.



## Ratings on Pig Iron Continue All Year

(Concluded from Page 1, Column 4)

(4) Sale of electric furnace and foundry grades of scrap at premium prices for use in basic open hearth furnaces is prohibited unless the scrap has been allocated by CPA.

(5) Incentive increases of \$2.50 to \$7 a ton have been granted on ceiling prices of prepared grades of cast iron scrap.

(6) The OPA's staff of expert graders is to be increased to permit a drive for criminal prosecution of OPA scrap regulation violators.

One of the suggestions made by the Steel Labor Advisory Committee to help increase output is the reopening of the seven idle furnaces now owned by the Defense Plant Corp.

Recently announced government plans to increase the pig iron output from currently operating furnaces by increasing the blast, etc., were seriously questioned by the labor committee.

## Trane Gets 21% Boost On Valves, Fittings

LA CROSSE, Wis.—Trane Co. here has been authorized by OPA to increase the October, 1941, maximum prices for its flow valves and fittings by 21.44%.

Granted by Order G-13 under Revised Supplementary Order 119, the increase also applies to wholesalers and retailers of the products.

OPA said the manufacturer's increase pertains to sales covered by Maximum Price Regulation 591, and was approved with the provision that all increases allowed pursuant to MPR 591 must be offset against it.

Trane and its jobbers are directed to maintain customary discounts.

## Atlantic Appliance Opened

LYNWOOD, Calif.—Atlantic Appliance Co. is the firm name under which Nathan M. Lerner has published a certificate that he is conducting business at 11101 Atlantic Blvd., Lynwood.

## Labor & Material Shortages, Low Output By Workers Cut Production, Nema Says

(Concluded from Page 1, Column 3) other articles which are especially critical. This hits the national housing program.

Shortages of labor in foundries, plus the scarcity of pig and scrap iron pose additional problems.

"The supply of small iron castings is most uncertain because of the pig iron situation and lack of skilled help," said one manufacturer. "Very few men even care to try to work in foundries, so beginners are also scarce."

Said a producer of electrical conduit fittings: "We are affected by a labor shortage in the foundry as labor seems to be unwilling to learn the moulding trade."

A shortage of labor, especially among women workers, was reported by most companies, according to the Nema survey.

"We are experiencing difficulty in

obtaining a sufficient number of employees for various departments," commented one manufacturer. "We need die makers, women for light assembly work, press operators, common labor, and office workers. People who will work on second and third shifts are hard to find."

"We find in the Chicago area," said another manufacturer, "that female workers would rather stay at home and draw their \$20 a week (unemployment insurance) than work for an additional \$10 or more. Industry in this area can only wait until the time interval runs out and this class of workers will be forced to seek employment."

Labor efficiency, most companies said in the Nema survey, is falling below 1941 levels, running at 65% in some instances. One factor, it is said, is that working forces are being increased in many plants and considerable time and effort must be

devoted to training new workers. "The output of many of our workers is affected by the fact that many of the jobs to which they are now assigned are new to them. Another factor is that the turnover of veterans not formerly in our employ has been high."

Complained another employer: "There is some decrease in labor efficiency which appears to be traceable to the fact that at present wage rates some of the younger workers, most of whom are young women, can earn all they think they need without much effort."

## Wholesalers Doubt Big Increase In Appliances

NEW YORK CITY—Although predicting that the 1946 sales volume of electrical wholesalers will be 50% more than last year, Charles G. Pyle, managing director of the National Electrical Wholesalers Association, doubts household appliance volume will approach 75% of the 1941 total.

In a recent statement, Mr. Pyle said the 50% rise will come mainly in electrical supplies and apparatus. Wholesalers do not expect a sizable increase in major appliance stocks, he stressed.

He said wholesalers receive frequent reports from manufacturers concerning production troubles due to the cumulative effect of many raw material shortages and labor tie-ups. Some manufacturers have told wholesalers they should prepare for a downward revision in the next few months, even though the Civilian Production Administration's reports have shown substantial production gains recently, he declared.

Mr. Pyle described as "meaningless" the recent report by the Census Bureau that electrical wholesalers' stocks during July were 95% above the corresponding period last year. Many wholesalers are receiving goods in small quantities and therefore must store them so a general allocation can be made to dealers.

"For instance," he said, "wholesalers accumulate their shipments of refrigerators for weeks at a time until they are able to send one or two out to each of their dealers. It wouldn't do to ship to some dealers and not to others, so this accumulation from time to time would indicate an inventory which really does not exist."

Individual billing, crating, and shipping required by this necessary method of operation has boosted wholesalers' operating costs, he pointed out. The shortage of crating, another of the wholesalers' woes, prevents shipping and warehouse space from being fully utilized because, he said, the crating in many cases "will not stand stacking."

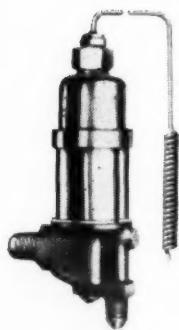
# "DETROIT"

## COMPLETE LINE OF EXPANSION VALVES

PREFERRED BY REFRIGERATION MEN EVERYWHERE

Preference of refrigeration men for "Detroit" Valves is based on a long record of excellent performance. The industry knows "Detroit" Valves will do a better job—keep right on doing it over years of service.

Illustrated and described here are representative members of the complete line. There is a "Detroit" Valve for every refrigeration need from extremely low temperatures to air conditioning temperatures.



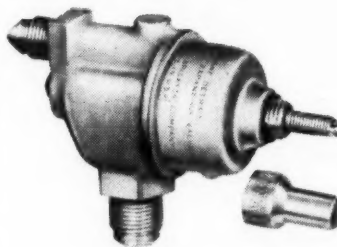
### NO. 673 THERMOSTATIC EXPANSION VALVE

For many years the standard of the industry. Gas Charged—keeps evaporators completely refrigerated. Orifice sizes  $\frac{3}{16}$ " to  $\frac{7}{32}$ " with capacities up to  $3\frac{1}{2}$  tons Freon-12 or Sulphur, and 6 tons Methyl.

#### UNIT NUMBERS OF STANDARD NO. 673 VALVES

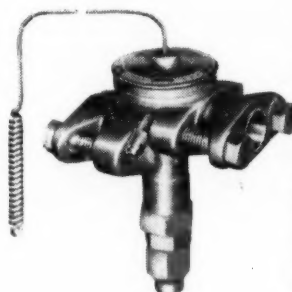
No.	Refrigerant and Operating Pressure	Orifice	Capacity	Inlet	Outlet
6731411	Methyl—40 lb.	$\frac{3}{16}$ "	2.0 tons	$\frac{3}{8}$ " S.A.E.	$\frac{1}{2}$ " S.A.E.
6731563	Methyl—10 lb.	$\frac{3}{16}$ "	2.0 tons	for $\frac{3}{8}$ " x $\frac{1}{4}$ "	$\frac{1}{2}$ " S.A.E.
6731428	Freon-12—55 lb.	$\frac{3}{16}$ "	1.0 tons	reducing nut	$\frac{1}{2}$ " S.A.E.
6731968	Freon-12—15 lb.	$\frac{3}{16}$ "	1.0 tons		$\frac{1}{2}$ " S.A.E.

Valves of other specifications are available.



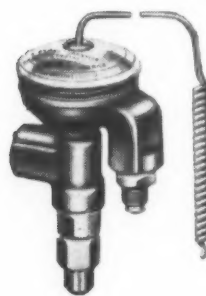
### NO. 672 AUTOMATIC EXPANSION VALVE

Pressure ranges 25" vacuum to 25 pounds pressure, or 0 to 50 pounds pressure. Orifices  $\frac{1}{32}$ ",  $\frac{1}{16}$ ",  $\frac{1}{8}$ ", and  $\frac{1}{4}$ ". Unit Number of Standard No. 672 Valve ( $\frac{3}{16}$ " orifice, range 25" vacuum to 25 lbs. pressure)—No. 672451. Other sizes available.



### NO. 787 LARGE CAPACITY DURA-FRAM VALVES

Special alloy diaphragms give reliable and uniform operation—Delubaloy needles and seats, exceptionally durable and corrosion resistant, high side liquid precooled by means of integral heat exchanger. Unit number of Standard No. 787 Valve (capacity 6-11 tons Freon-12)—No. 78711. Other sizes available. Supplied with external equalizer.



### NO. 893 DURA-FRAM EXPANSION VALVE

Rated at  $\frac{1}{2}$  ton Freon-12 and Sulphur, .9 ton Methyl. Inlet  $\frac{1}{4}$ " or  $\frac{3}{8}$ " S.A.E. Outlet  $\frac{1}{4}$ " female, MPT;  $\frac{3}{8}$ " or  $\frac{1}{2}$ " S.A.E. Regularly supplied with strainer at inlet.

#### UNIT NUMBERS OF STANDARD NO. 893 VALVES

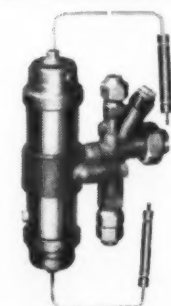
No.	Refrigerant and Operating Pressure	Orifice	Capacity	Inlet	Outlet
89329	Methyl—40 lb.	$\frac{1}{16}$ "	1.0 tons	$\frac{1}{4}$ " S.A.E.	$\frac{1}{2}$ " S.A.E.
89333	Methyl—10 lb.	$\frac{1}{16}$ "	1.0 tons	$\frac{1}{4}$ " S.A.E.	$\frac{1}{2}$ " S.A.E.
89330	Freon-12—55 lb.	$\frac{1}{16}$ "	.5 tons	$\frac{1}{4}$ " S.A.E.	$\frac{1}{2}$ " S.A.E.
89335	Freon-12—15 lb.	$\frac{1}{16}$ "	.5 tons	$\frac{1}{4}$ " S.A.E.	$\frac{1}{2}$ " S.A.E.

Valves of other specifications are available.



### NO. 899 DURA-FRAM THERMOSTATIC EXPANSION VALVE

For commercial installations. Furnished with or without external equalizer and has forged union connections. Capacity 1.5 to 6 tons Freon-12 or Sulphur—3 to 11 tons Methyl.



### NO. 793 DIFFERENTIAL TEMPERATURE EXPANSION VALVE—FOR OPERATION BELOW MINUS 30 DEG F

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## Tourist Cabin Use of Air Conditioning Seen On Upgrade Next Year

CLEVELAND—Overnight accommodations with the latest in indoor comfort conditions will greet the 1947 tourist, says the Indoor Comfort Educational Bureau of the National Warm Air Heating and Air Conditioning Association.

According to the Bureau, many members of the country's tourist industry, including owners and managers of hotels, auto courts, and small hotels, are planning to install air conditioning equipment.

This equipment will not only heat or cool the indoor air, but will properly humidify or de-humidify the air, cleanse the air of dirt, dust, and pollen, circulate, and purify the air of germs and bacteria, and provide fresh air in adequate quantities, the Bureau reported.

By adopting air conditioning, the Bureau pointed out, the tourist industry will assist the traveler to adjust to changing climatic conditions.

The use of air cleaning devices, the Bureau added, will relieve hay fever sufferers by removing 98% to 99% of the ragweed and wormwood pollen from the indoor air. The ragweed and wormwood pollen season and the tourist season are both at their height in late August.

## Amended CPA Order Eases Plumbing, Heating Repairs

WASHINGTON, D. C.—Priority assistance may be obtained by any home owner for heating or plumbing supplies necessary for emergency repairs to a dwelling made uninhabitable by a breakdown of those facilities, the National Housing Agency said Sept. 11.

The move was necessary because of recent actions under which the bulk of plumbing and heating items was ordered set aside for use in veterans' housing. This, it was recognized, would make it difficult for non-veterans to obtain parts for emergency repairs. The new action is an amendment to Housing Expediter Priorities Regulation No. 5.

The total cost of supplies for which priority assistance is granted may not exceed \$200, or \$500 for a dwelling designed for six or more families. Application for priority assistance should be made to local Federal Housing Administration (FHA) offices for non-farm dwellings and to County Agricultural Conservation Committees for farm dwellings.

## James & Roach Occupies Larger Quarters In Detroit

DETROIT—James & Roach, Inc., heating and refrigeration engineers, has moved into its new quarters at 282 East Milwaukee St. here.

With five times more floor space and a greatly expanded sales and service organization, James & Roach plans for the largest volume of business in its 24-year-old career in Detroit. The company is distributor for Carrier air conditioning, Stokol stokers, Williams oil burners, and other equipment in the heating and air conditioning field.

## FOR SALE

### REFRIGERATING SYSTEM

Eastern Penna. manufacturer has as surplus a refrigerating plant, in excellent condition, for cooling 800 gallons per minute of water through 10° range.

Consists of four 80 tons 9 x 9 York ammonia compressors with direct connected synchronous motors, three vertical 43" shell and tube condensers, one ammonia accumulator, one ammonia receiver, closed type water cooler with ammonia circulating pump and all ammonia piping and valves.

Also, one 500 and one 800 gallons per minute Ingersoll-Rand centrifugal pump for 150' head.

Also, one C. H. Wheeler cypress cooling tower 14'x32'x32' high, with 103" propeller fans and two approximately 1500 gallons per minute Ingersoll-Rand centrifugal pumps for condenser cooling water.

The system is suitable for cooling water or may be used in connection with an air conditioning system, or may be adapted to ice making.

All motors for 440 volts, 3 phase, 60 cycle current.

Inquiries invited.

Box No. 2071,  
Air Conditioning & Refrigeration News

## Tightened Screening Procedure In Effect As CPA Moves to Cut New Non-Housing Construction 25-30%

WASHINGTON, D. C.—Civilian Production Administrator John D. Small has officially instructed the 71 CPA construction field offices to "conserve critical building materials to the utmost" and outlined how the screening procedure must be tightened, with every effort made to reduce the over-all national weekly quota of non-housing construction approvals by 25 to 30%.

The instructions were in line with the decision reached with Housing Expediter Wilson Wyatt to cut down commercial, industrial, and institutional construction in favor of veterans housing.

He ordered an immediate tighten-

ing of the criteria against which non-housing construction applications are measured, and pointed out that a goal has been set for a national weekly quota as close to \$35 million per week as may be possible in place of the \$48 million weekly quota set up last May 31 when approvals were reduced by two thirds.

Approval of applications on the "public health and safety" criterion must be directly related to objective. Where the relationship is of minor nature rather than major the criterion will not be deemed to apply, Mr. Small said.

Similarly the "increased food production" criterion must be restricted

to those projects primarily and directly supporting this activity.

Approvals in the "critical products" category must be confined to items listed in column six of Priorities Regulation 28 unless and until approved by advice from Washington.

## Massachusetts Plant Space Acquired by Ace Cabinet Co.

BRONX, N. Y.—The Ace Ice Cream Cabinet Co., manufacturer of mechanically refrigerated cabinets, has announced the acquisition of 75,000 sq. ft. of manufacturing space in the former Pier Mill property on Belleville Ave., New Bedford, Mass.

The company plans to turn out farm and home freezers, ice cream dispensing and hardening cabinets, bob-tail units, and soda fountains.

## Commercial Distributor Sets Up In Houston, Texas

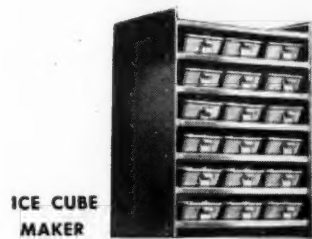
HOUSTON, Tex.—A new \$100,000 Houston firm, the Merchandise Sales Corp., has been organized to distribute commercial refrigeration and air conditioning and is now operating at 2406 McKinney.

The company plans to appoint many dealerships throughout the Rio Grande Valley and coastal areas. Already authorized are dealers in Brownsville, Corpus Christi, and Laredo, C. R. Lane, secretary-treasurer, said. Construction of a new building to house the firm is planned, Mr. Lane said.

Other officials of the company are Joe R. Steele, president, and Dr. Judson L. Taylor, vice president.

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ICE CUBE MAKER



CAPACITY BOOSTER



FINNED ICE CUBE MAKER



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● PEERLESS Flash Coolers reduce operating costs through increased natural convection, circulating air for maximum efficiency in food preservation. Through highly polished aluminum louvers a constant volume of high-humidity air drifts gently downward over stored products. Completely non-ferrous, having aluminum pans, hangers, fins, end plates, and electro tin-plated copper tubing, the PEERLESS Flash Cooler is a complete unit, quickly and easily installed.

● One week delivery on PEERLESS Flash Coolers! That's a dream come true, made possible by the speed and thoroughness of our reconversion program. It's not only true of Flash Coolers, but also of Ice Cube Makers and Fin Coils. Better still, PEERLESS can now give immediate delivery on Expansion Valves and Capacity Boosters.

These products are all engineered to give the superior service which will make your installations make more customers for you. Think of PEERLESS and fast delivery when you need products in the refrigeration field.

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## Revamping Kitchen Refrigeration System Helps Hotel Boost Number of Meals Served

### 'Serve-Self' Case For Salads Speeds Up Dining Service

OMAHA, Neb.—Revamping of the refrigeration system in the food service department at the Wellington hotel has been instrumental in enabling the establishment to increase its meal service from 10,000 to 14,000 meals per month since last May, according to Sam Epstein, food service manager.

One of the major items in speeding up food handling and also improving the quality of meals has been the installation of a 10-foot reach-in "serve-self" refrigeration case similar to those used at self-service supermarkets. The open case allows cooks and waitresses to reach in and secure made-up salads without the trouble of sliding open or lifting a door, and also keeps the salads more palatable and more attractive to the eye. Salads are made up during the slack period between meals and are

placed on plates, ready to serve.

A two-shelf, all-glass, enclosed cabinet has been installed on top of the refrigerator case for storage and easy selection by the help of pastries and similar edibles that do not require refrigeration, but are kept in better condition by the coolness emanating from the open case below.

The walk-in zero and storage refrigerators adjoining the Wellington kitchen have been modernized by replacing the old coils with blowers. Mr. Epstein said this improvement not only has greatly improved the efficiency of the old boxes, but the circulating air keeps meat and poultry products in better condition.

A six-compartment commercial refrigerator is used in the kitchen to provide refrigeration for all types of edibles and ingredients, thus improving the quality of the food service

and effecting an economy by preventing spoilage.

The Wellington kitchen is comparatively small for the large volume of food it handles and the number of employees, and kitchen air conditioning has added greatly to employee morale, Mr. Epstein declared.

## Houston Dealers Form New Organization

HOUSTON, Tex.—M. L. Craig has been elected president of the newly organized Houston Retail Appliance Dealers Association. Other officers are Stokes Edmondson, vice president; S. W. Morris, Jr., secretary, and S. J. Eubanks, treasurer.

The organization announced its aims as calling for the "promotion of better cooperation between Houston's electrical appliance dealers, wholesalers and manufacturers, the achievements of higher service standards, trade-in practices and prices, and fairness with the people of Houston and its trade territory."

The membership of the association is composed of 60 retailers, wholesalers, and manufacturers.

## Year-Round Vacation Schedule Seen If Firms Use More Air Conditioning

WASHINGTON, D. C. — Year-around vacation schedules, a benefit to both employer and employee, are being promoted by more extensive use of air conditioning in factories, retail stores, offices, and other commercial establishments, reports William B. Henderson, executive vice president of the Air Conditioning and Refrigerating Machinery Association.

"The advantage of year-around vacations," he said, "is that business can operate at the same tempo throughout the entire year."

"There are 26 two week vacation periods in the 12 months," he pointed out. "By adopting the year-around schedule, a business of 100 employees would have about four absent at all times, instead of 15 or 20 during the summer months."

"By taking on four additional employees, this business would find vacations no longer disrupting. The effect would be to stimulate employ-

ment while producing greater business efficiency.

"Many businesses find their staffs so depleted during the three summer months that routines are destroyed, and service to customers suffers."

"Production is curtailed in industrial plants. During the period when it has been difficult to obtain temporary help, many businesses have been closed down entirely for two weeks in the summer, in order that all employees might take their vacations at the same time."

"Many people would like to vary their vacation periods each year, and the year-around schedule would find many employee supporters."

Pointing out that air conditioning where introduced, has overcome fatigue and loss of efficiency caused by heat and humidity, Mr. Henderson continued:

"As air conditioning is introduced in retail establishments, the old time summer trade slump tends to disappear. As summer shopping increases, sales staffs reduced by vacation exodus will no longer be adequate to handle the trade, making a year-around vacation program imperative."

"With a 12 months vacation schedule, the costly summer shutdowns and slowdowns can be avoided and in the aggregate business would save a large sum."

"Winter vacation business would be stimulated, transportation congestion would tend to level off, and new vacation areas could be opened in sections which at present have no especial summer appeal."

"Undoubtedly," he concluded, "this year-around vacation trend will be accelerated, and the results will be beneficial both to business and employees."

## Belmar to Use New Building To Expand Storage Facilities

BELMAR, N. J. — Announcement has been made by the Belmar Cold Storage Co. of its purchase of the former Casino Ice Co. building on River Rd., here, for conversion into public freezing and cooler space.

Upon completion of the conversion project, scheduled for Oct. 1, the building will make available to the public 32,000 cu. ft. of freezing space at below zero temperature; 1,000 individual food lockers; 6,500 cu. ft. of cold storage space for foods, and 5,000 ft. of working space.

Plans are to add more freezer and cooler space during the winter.

## BEVERAGE COOLERS

large coil surface, blower fan, baked finish, stainless steel doors. BEVERAGE COOLERS also available stainless steel throughout. REACH-IN REFRIGERATORS. 20, 30, 42 cu. ft. sizes, stainless steel inside and out. ICE CREAM CABINETS—6 hole, hard rubber flip-top doors, stainless steel tops. FREEZERS—8, 12, 20, and 25 cu. ft. with plate coils. OPEN TYPE FROSTED FOOD CASES—20, 25, 31 cu. ft. with plates.

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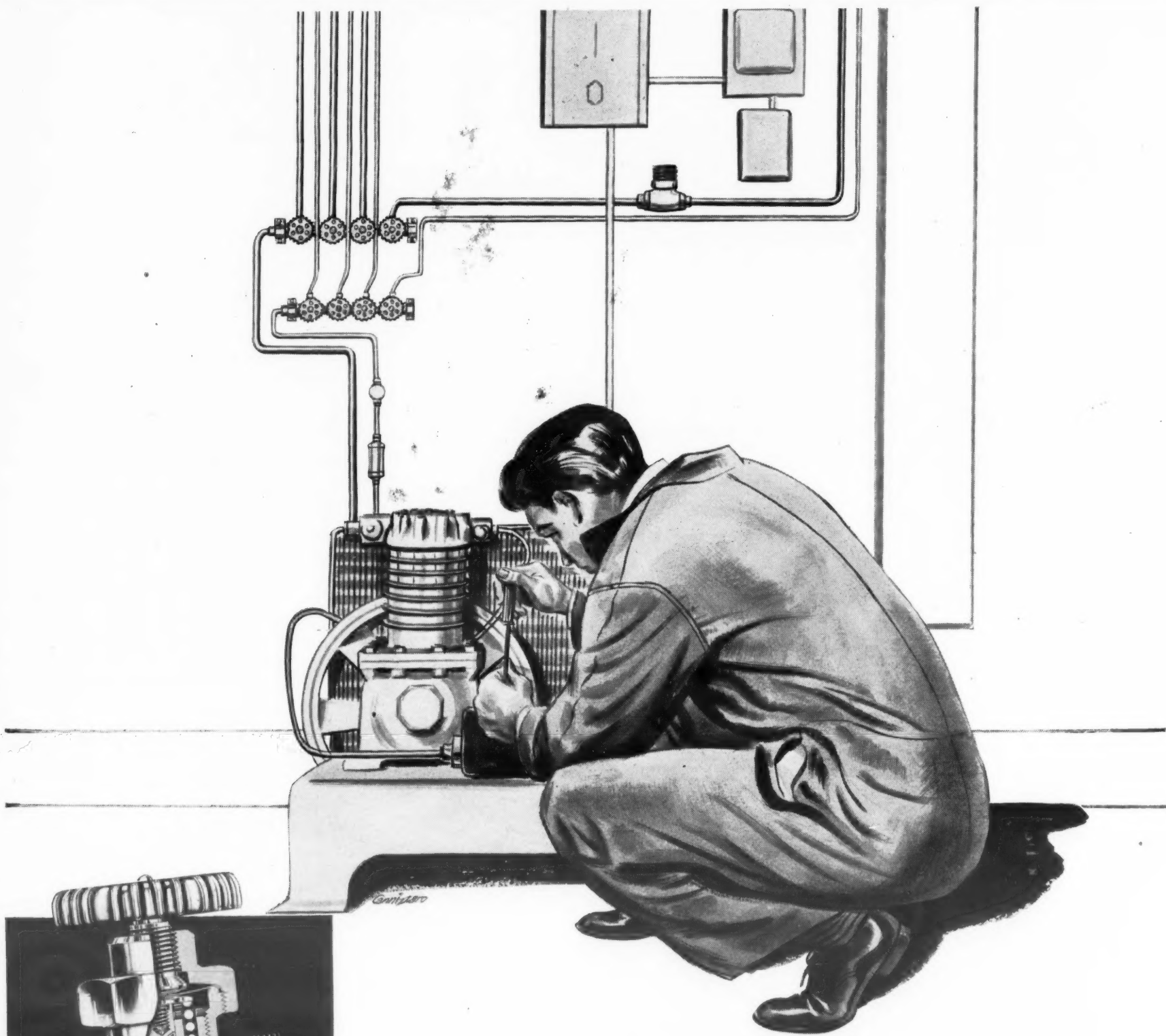


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REFRIGERATION  
INDUSTRY**



## Requests Pile Up for New Union Electric Frozen Foods Booklet

ST. LOUIS—Requests are piling in by the hundreds for the new handbook on frozen foods preparation which has been published by Union Electric Co., utility here.

Assembled by the home economics department after two years of research into all phases of frozen foods handling, the book was put together by Esther Lee Bride, chief of the department. "We began on this book as a natural sequel to previous experimentation with food dehydration, preserving, etc.," she explained, "finding immediately that quick frozen foods have much more direct public interest. Therefore, we made up the book to cover all problems from those of home freezing of meats, fruit and produce to the more simple tips involved with cooking commercially packaged frozen foods."

The book begins with a general description of the freezing industry, concentrating on the care necessary in selecting top grade items exclusively, and mentioning precautions with general produce, fruit, and meat which show best results.

The lead selection instructs the housewife how to buy various food products for eventual freezing, how to wash, blanch, wrap and freeze them, with eventual packaging and cooking involved.

The second section is broken down into those food items which Union Electric's kitchen planning classes demonstrated were most interesting to Missouri housewives. Thus, running through several pages, the housewife can find complete step-by-step instructions on carrots, peas, beans, fruit, meat, fish, etc., separately set up, and so thoroughly worked out that there is little opportunity for mistakes.

Another section is devoted to the use of frozen dough for pies, rolls, muffins, cakes, and similar items, with which Union Electric has accomplished wonders since 1943.

More pages list all nationally accepted frozen food items and delineate the company-proven best methods of preparing each for the table. Upwards of 75 practical tips are included from cover to cover, to guide any housewife, restaurateur, or commercial frozen foods operator.

Rear pages are comprised of charts painstakingly worked out for time required in freezing various foods, and more technical preparation material.

## Locker Operator Fined For Price Ceiling Evasion

LINCOLN, Neb.—Damages totaling \$93.75 have been assessed by Federal Judge John W. Delehant against L. L. Coryell & Son for price violations in connection with services supplied at the frozen food lockers at the Coryell Commercial Center, 3300 North 41st St.

Judgment followed signing of a stipulation by the company and OPA agreeing to the judgment. The first count, asking a restraining order, was dropped. Case had been pending since Jan. 31.

## Omaha Locker Owners' Use of Sugar Probed

OMAHA, Neb.—Alleged abuse by freezer locker plant owners of a new OPA regulation designed to make sugar available to prevent spoilage of fresh fruits in the Omaha area is being investigated by district OPA officials. The ruling permits locker and cold storage plant owners to obtain sugar if they "add the sugar, mix, package, and actually place" the fruit in the locker for patrons of the plant.

H. B. J. Meyer, district sugar chief, stated that his office so far has issued about 10,000 lbs. of sugar in 14 locker plants near Omaha under the ruling. He admitted there had been reports of locker operators buying large quantities of fresh fruits and then offering them for sale for freez-

ing, while other reports indicated some people have purchased as much as a carload of peaches, had them frozen and then arranged to sell the frozen food.

Mr. Meyer admitted these practices discriminated against housewives who buy a small amount of fruit and plan to preserve it at home for the use of their own families, but are unable under rationing to get sufficient sugar.

## Plans for Freezing Plant Approved In Chattanooga

CHATTANOOGA, Tenn.—Application by Zero Products, Inc. for construction of a \$33,000 frozen food processing plant here was recently approved by the Tennessee State Construction Review Committee of the Civilian Production Administration.

## NOTIFICATION OF FREEZER INSTALLATION

A Coldspot Freezer of the size checked below has been installed on the electric line at

(Owner Fill in Address)

We would appreciate any advantage in rates or service to which any such installation may entitle us.

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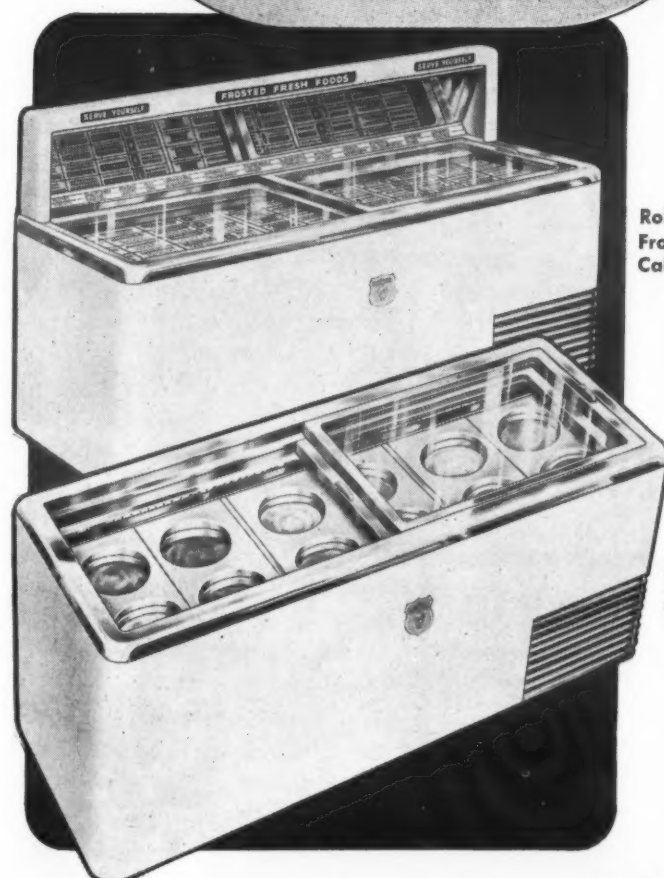
CHECK ONE

(Owner's Signature)

- ☐ 6 cu. ft., 1/8 H.P.  
☐ 9 cu. ft., 1/4 H.P.  
☐ 12 cu. ft., 1/2 H.P.  
☐ 18 cu. ft., 3/4 H.P.

COLDSPOT FREEZERS,  
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Sears, Roebuck & Co. has hit upon an idea for enabling dealers, customers, and utilities to cooperate in bringing better service to purchasers of electrical appliances. Above is a reproduction of the postal card provided by Sears for purchasers of its Coldspot Freezer. As the card indicates, the customer fills out the card and mails it to the utility serving him. Thus the utility can keep a record of the purchasers of freezers and can better serve them.



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|                                | Walk-In Coolers                   | Meat Display Cases              |
|                                | Beverage Coolers                  | Refrigerated Candy Cases        |
| LOW TEMPERATURE EQUIPMENT      |                                   |                                 |
|                                | Roll-A-Door Frosted Food Cabinets |                                 |
|                                | Roll-A-Door Ice Cream Cabinets    |                                 |
|                                | Roll-A-Door Home Cabinets         |                                 |
|                                | Roll-A-Door Farm Cabinets         |                                 |
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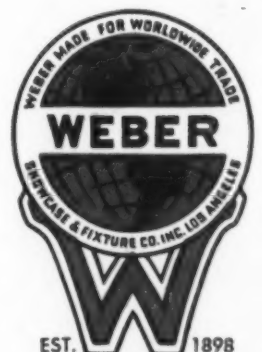
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## THE NEW LAU BLOWER AGAINST THE FIELD

... *Performance-wise!*  
... *Price-wise!*

• We've designed and redesigned—tested blowers—tested wheels—tested bearing supports. Based upon these exhaustive tests, we've engineered the new Lau Series "A" Blower for greater mechanical strength . . . greater efficiency . . . in a more compact unit . . . lending itself to mass precision production . . . at STILL LOWER COST THAN EVER BEFORE. New 3-point suspension-type bearing and bracket form an integral part of the shroud—frictionless, self-aligning—completely encased in Neoprene. New 1-piece motor mounting applicable to any angle discharge—easily convertible, rear to top or vice versa, by simple use of two sheet metal screws. Many other new and exclusive features. **SMALLER OVERALL SIZE fits more jobs.** The Series "A" Blower conforms perfectly with manufacturers' ideas today of building smaller cabinets, yet nothing in our new unit is sacrificed—instead, we offer a more efficient blower. Write for complete description, dimensions, performance data, and prices.

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## Get Out Your Slide Rule Again

THE people of the United States, unlike the populations of most European countries, are far from suffering a diminution which can be measured in big, round numbers. On the contrary, our population is growing with amazing rapidity.

Based upon a 1945 population estimate of 139,427,000, figures now indicate that by the year 2000—if the Atom spares us—an American populace numbering 190,000,000 is entirely within the realm of possibility.

Baffled experts, who formerly had predicted a population peak of 151,000,000 in 1955, are now hastily revising their figures to conform to the present boom in births. They now guesstimate that a gain of 13,000,000 United States citizens will occur between 1940 and 1950.

Wartime births, for the three and one-half years ending July 1, 1945, exceeded earlier Census Bureau predictions by almost 1,000,000. Although the present birthrate hovers around the 1944 figure, it undoubtedly will be stepped up when more and more of our vigorous young men are released from military service and return home to greet the girls who await them eagerly.

It is now believed that the United States will have, by 1950, at least 5,025,000 more children under 10 years of age than it could boast in 1940. That is a statistic which should be of interest to school planners as well as to marketers and advertising men.

It seems obvious that the middle of the next decade will find both the high schools and the labor market overflowing with these forthcoming adolescents. And, inasmuch as a big majority of this big new generation probably will be married by 1970, another terrific boom in the birth rate seems imminent for the years between 1965 and 1975.

Market planners please take note. Estimates of possible "saturation" of home appliances are probably all cockeyed now, in view of the probably immense increase of American families and home units.

### Footnote to OPA

DESPITE the existence of OPA, America's cost of living has risen at least 15% higher than it did during the uncontrolled inflationary era following World War I, it now is revealed by a recent survey conducted by the Congressional food study committee, headed by Rep. Thomas A. Jenkins of Ironton, dean of Ohio's House delegation.

Debunking the proud claim made by Paul Porter that the present cost of living has increased only "one-third as much" as it did after the last war, this simple survey proves that a "market basket" containing 20 typical items cost the housewife a total of \$5.89 in May, 1919. However, in May, 1946, the cost of an identical "market basket" added up to a total of \$6.01—aside from subsidies. (And certainly food costs have risen higher since May!)

If she is able to obtain these staple foods, the 1946 housewife pays, in addition to the \$6.01, consumer subsidies amounting to about 75 cents, which hidden item is added to the American family's income tax bill. In 1919, no subsidies existed.

Typical market basket which the Congressional food committee studied in its survey was made up from Department of Agriculture estimates of foods bought weekly by an average family of three.

All May, 1919, prices were taken from Washington newspaper advertisements for the purposes of this survey. Prices for May, 1946, were also from newspaper advertisements, except in those instances where the items are too scarce to be advertised. In such cases, the prices quoted were OPA ceiling prices in the lowest priced group (the prices at which you couldn't buy them).

We ask you: Have price controls helped the consumer?



# IT HAD TO BE RUGGED

## FOR RAIL AND HIGHWAY SERVICE



**your service work is easier**

**... because  refrigeration valves are DEPENDABLE**

The first air conditioned streamliners to race over the rails used the A-P Model 70-NA Solenoid to control refrigerant in their air conditioning systems. Further test of its rugged strength, leakproof safety and trouble-free service came from busses, trucks, ships, and other mobile units as well as all types of large air conditioning and refrigeration installations everywhere.

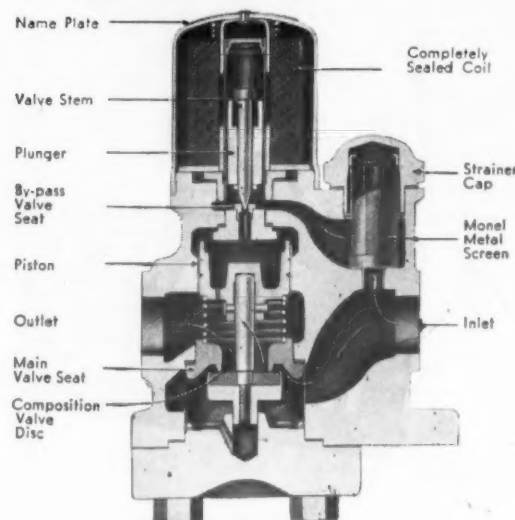
An "11 pound handful", the Model 70-NA measures only 7 1/4" high by 3 1/2" wide. In spite of its large capacity, up to 20 tons Freon, it requires surprisingly little power to operate. Current is needed only to open a small by-pass, allowing refrigerant to pass into the chamber above the main piston. Pressure then forces the piston down, opening the main valve without additional electrical power. This feature, plus the use of the A-P "impact type" plunger in the by-pass, means easy and efficient opening under high pressure.

Few, if any, solenoids can give you the wide range of application provided by the A-P Model 70-NA. For instance, it offers three flange sizes — 5/8", 3/4" and 7/8" — A.C. voltages of 20, 24, 115, or 230, and 25, 50 or 60 cycles. Also 6, 12, 32, 64, 115, 230 volts D.C.

Put the rugged DEPENDABILITY of the A-P Model 70-NA to work for *your* benefit on large installations of every kind. Your jobber carries it in stock—or write for Bulletin 402-A.

**A-P Model 70-NA  
Solenoid Refrigerant Valve**  
With wide range of flange sizes,  
voltages and cycles—for ap-  
plications up to 20 tons Freon.

**Cross Section of Model 70-NA  
Solenoid showing by-pass prin-  
ciple, and other construction  
features.**



### AUTOMATIC PRODUCTS COMPANY

2450 NORTH THIRTY-SECOND STREET • MILWAUKEE 10, WISCONSIN  
EXPORT DEPT. 12 • E. 40TH STREET, NEW YORK 16, N. Y.

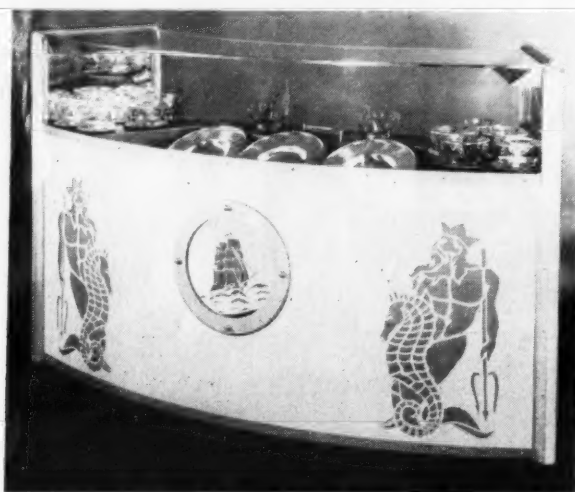
** Dependable REFRIGERANT VALVES**

STOCKED AND SOLD BY GOOD REFRIGERATION JOBBERS EVERYWHERE . . . RECOMMENDED AND INSTALLED BY LEADING REFRIGERATION SERVICE ENGINEERS



## What's New

### Service Bar Designed for Seafood Cocktails



Furnished complete with dishes, platters, forks, etc., this Neptune Seafood Bar is said to be finding wide use in hotels, restaurants, and cocktail bars.

LOS ANGELES — The Neptune Seafood Bar, designed as a sales counter for seafood cocktails in restaurants, bars, hotels, and country clubs, is now being marketed by the U. S. Grant Supply Co. here.

The bar is semi-circular in design and occupies about 5 sq. ft. of floor space, according to U. S. Grant, of the supply company. It is strongly constructed with tempered French plate glass and satin trim.

The rear service section is made of stainless steel, he added. It contains open face compartments for napkins, forks, cash drawer, and a large refuse compartment with chutes. Ice drainage has been provided for with a removable tank.

Centered in the front panel is a glowing medallion, illuminated from behind. Tube light in reflectors on the side light up the food and ice. All lighting fixtures are concealed.

Plenty of storage space for extra food and equipment is also provided, according to Mr. Grant.

A complete unit in itself, the bar can be installed in about 30 minutes, Mr. Grant said.

The Neptune Seafood Bar comes equipped with 48 Supreme dishes, 48 forks, three platters, two ladles, two sauce containers, and a pair of tongs, he declared. Extra Supremes with chrome plated underliners, may be ordered separately, he added.

Immediate delivery is offered by Mr. Grant.

### New Drive Simplifies Winding Small Motors

SYCAMORE, Ill. — A new coil winder drive, especially designed for fractional horsepower motor winding, has been introduced by Ideal Industries, Inc. here.

Operation has been simplified to only two controls and a clutch in



obtaining a speed variation of 41 to 410 r.p.m., the company said.

The operator sets a speed dial to either "fast" or "slow" speed and turns on the switch. He engages the clutch by means of a foot pedal and varies his speed by a handwheel control.



### 2 Ft. Long Counter Unit Gives 4 Ft. of Storage

CHICAGO — Designed for under the counter installation, a two-foot refrigerated unit which provides 4½ cu. ft. of storage space, is being manufactured by the Liquid Carbonic Corp. here.

Stainless steel inside and out, the unit is refrigerated by direct expansion and insulated by pure corkboard, the manufacturer states. It has a 33 in. high work surface, finger tip door latch, and a recessed base to make it easy to get at.

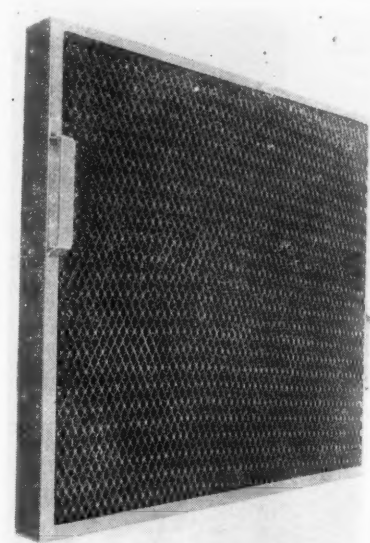
Four and six foot similarly designed models, which have 10 and 16 cu. ft. capacity respectively, are also being produced by the Liquid Carbonic Corp.

### 'Centrifugal Wiping' Claimed for Filter

NEW YORK CITY — A new all metal permanent cleanable Agitair FM air filter is now being manufactured by Air Devices, Inc. here.

The manufacturer states that the filter is designed to perform efficiently at an approach velocity of 432 fpm. handling 1,200 cfm. through a 20 x 20 in. filter panel.

Consisting of layers of expanded metal so disposed as to induce turbulent cyclonic action of the air within the filter, the unit creates a centrifugal wiping action against all viscous surfaces of the metal, according to the manufacturer.



High efficiency is claimed for this new all metal permanent cleanable filter introduced by Air Devices, Inc.

The Agitair FM operates at high velocities with sustained low resistance to air flow, maximum dust holding capacity and extremely high dust holding efficiency, it is claimed.

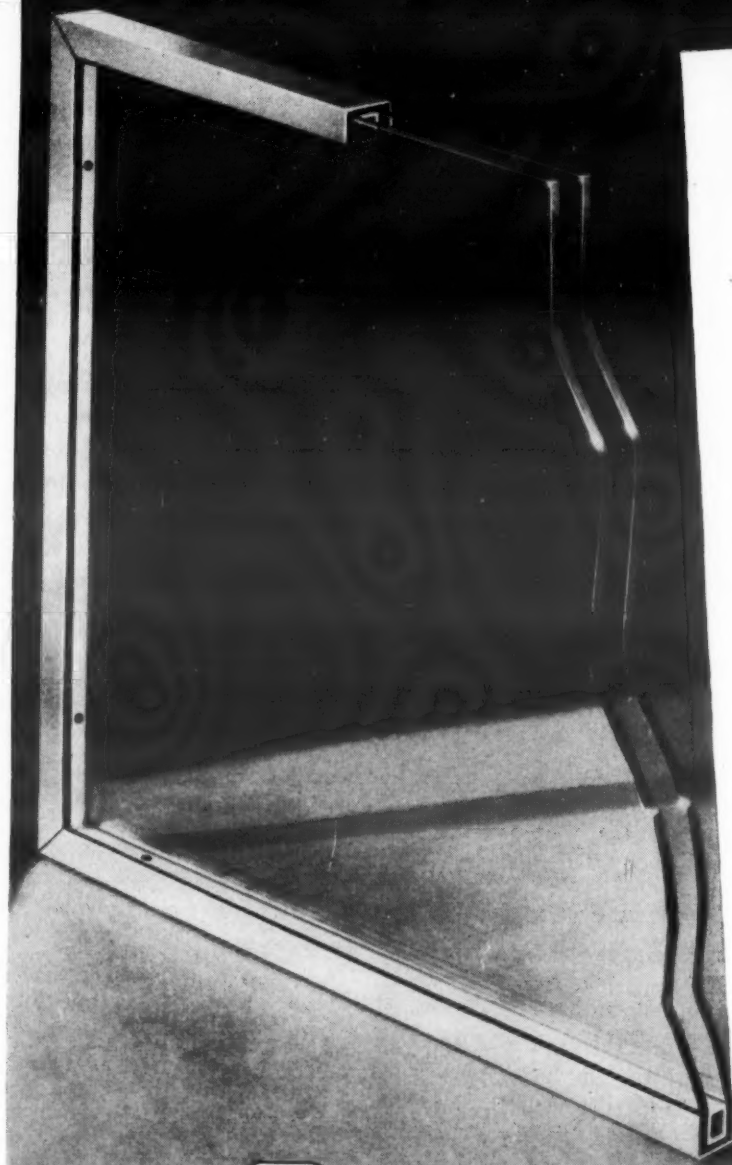
Frames on the filter are constructed of cold rolled steel and are welded to prolong its life, the manufacturer says.

### Dennis Forms New Firm

OCEAN PARK, Calif. — Central Refrigeration Sales & Service Co. is the firm name under which Alex J. Dennis has published a certificate that he is conducting business at 2503 Main St., Ocean Park, Calif.

## QUESTIONS and ANSWERS about

### "Pittsburgh's" New Window



QUESTION ...

What is TWINDOW?

ANSWER ...

Twindow is the newest development in insulating windows. It is a simple, pre-fabricated window unit, consisting of two or more panes of glass with a hermetically sealed air space between and a sturdy protecting frame of stainless steel.

QUESTION ...

Where can TWINDOW be used most advantageously?

ANSWER ...

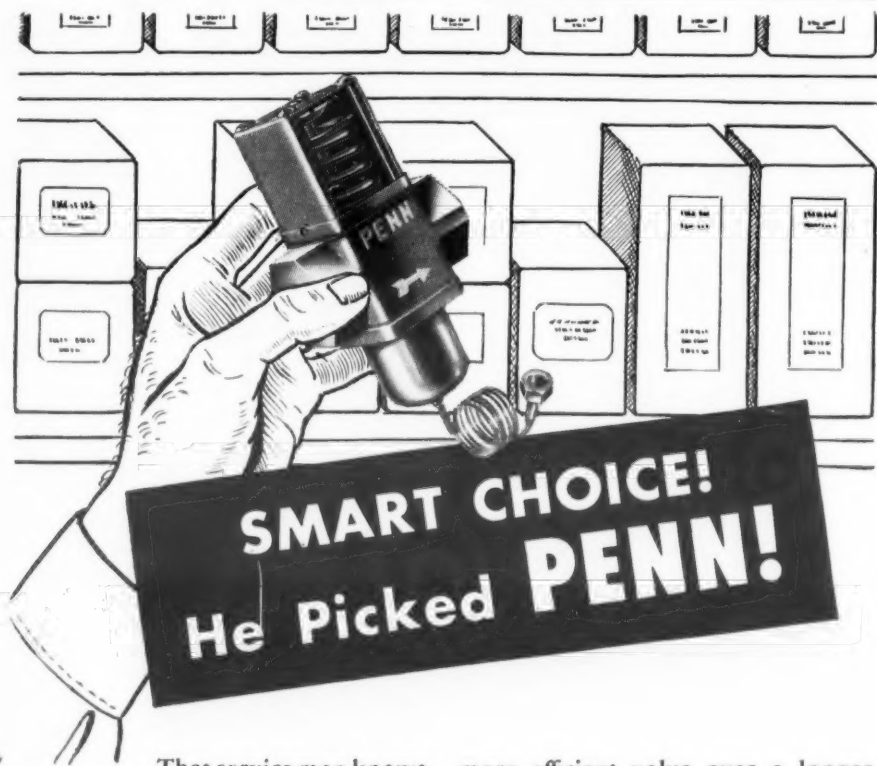
Twindow should be used wherever clear vision and effective insulation are important. It is a "natural" for large windows in homes, for store front windows, large windows in factories, office buildings and institutions.

QUESTION ...

Why was TWINDOW developed?

ANSWER ...

Twindow is the result of extensive research at the Pittsburgh Plate Glass laboratories to develop an efficient, eco-



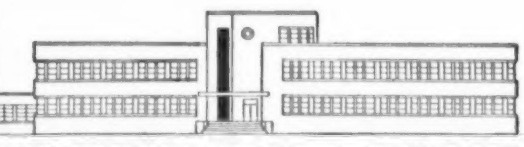
That service man knows his refrigeration. He takes no chances on having an ordinary water valve imperil his installation. He knows a PENN Water Valve assures long life and performance that is dependable and trouble-free.

Rust, corrosion and sedimentation never get started with this new type water regulator. The range spring and sliding parts never come in contact with water. The result is a better,

more efficient valve over a longer period of time, for all types of refrigeration applications.

PENN 246 Water Valves are built in two styles—flanged and threaded—in a wide range of sizes to fit your specific need. Send for Bulletin R-1986A—and get the complete facts. Penn Electric Switch Co., Goshen, Ind. Export Division: 13 E. 40th St., New York 16, U. S. A. In Canada: Penn Controls, Ltd., Toronto, Ontario.

# PENN



## AUTOMATIC CONTROLS

FOR HEATING, REFRIGERATION, AIR CONDITIONING, ENGINES, PUMPS AND AIR COMPRESSORS.



"PITTSBURGH" stands for Quality Glass and Paint

PITTSBURGH PLATE GLASS CO.



## Supermarket Uses Frozen Food Attendant To Increase Sales In Self-Serve Section

OMAHA, Neb.—Attractive display of perishable food products in refrigerated display cases has built up the sales volume of these products to account for one-third of total store receipts, although the refrigerated departments take up only about one-ninth of the total selling space, which is 120 x 60 feet, at the Hinky-Dinky Super Market, 18th. and Chicago streets here.

Thirty-five feet of the refrigerated cases are self-serve, while giant, specially designed 60-foot porcelain and glass meat cases adjoin the self-serve series of cases at a right angle.

Maurice Breen, manager of the super market, reported that self-service merchandising of refrigerated foods has proven to be an unqualified success. Sanitation and freshness of products are emphasized, he said, and refrigerated display lends itself admirably to this merchandising theme.

"Attractive display of frozen foods attracts all types of customers," declared the store manager. "Frozen foods have been publicized sufficiently through national magazine and local newspaper advertising, government and state university pamphlets, and county demonstration agents, as well as by word-of-mouth, that nearly everyone in this part of the country, at least, has some knowledge or curiosity, concerning such foods.

"Display that has sales appeal, along with prompting by informed

clerks when the need may arise, has served to acquaint a large majority of our customers with frozen foods during the past four years.

"Once the initial sales resistance is broken down," Mr. Breen added, "the product tends to sell itself, and it is with this repeat business that self-service has proved to be invaluable. Moreover, frozen foods along with other products displayed in refrigerated cases, have brought customers from all sections of the city to our store. People often remark how much they like our system of self-serve display of perishable products."

An interesting innovation of refrigerated products' merchandising at the Omaha market has been the refrigeration of dried fruits. A sign on one of the cases reads: "Dried fruit under refrigeration for your protection. . . . Prunes, peaches, figs, pears, raisins. . . . Serve more dried fruit—Rich in energy."

Dried fruits are an important item at Hinky-Dinky the year-round, whereas most stores can handle them profitably only in the winter months. During the summer months, many varieties of dried fruits spoil, with resultant customer complaints and merchandise returns. These problems are eliminated at the Omaha store by displaying the dried fruits in a refrigerated case during the summer. Mr. Breen stated that the system is boosting dried fruits profits

by more than 50% during the warmer months of the year.

Five 2-hp. compressors provide refrigeration for the Hinky-Dinky cases. First in line is the 10-foot Schaefer case which is a regulation Birds Eye Frosted Foods unit. All cases, incidentally are porcelain-enameled in white with black trimming. The frozen food case has spring actuated bottoms on each of the package holding racks, so that the packaged foods are displayed at the top of the case, whether there is only one package or 50 in a rack. Customers like this feature very much, Mr. Breen avers.

A canopy attached to the frozen food case is floodlighted and has illustrations of the various frosted foods in natural colors. Prices also are listed. This canopy also serves as a posting panel for specials.

Next in line is a 10-foot open-top self-serve case for eggs and cheese. Patrons appreciate the fact they can secure refrigerated eggs and cheese without opening a door or sliding a panel, the store manager declared. The refrigeration coils are mounted at the back of the case, behind a white-enameled panel which extends partway up in the case. The cold air circulates over the top of the panel and onto the eggs and cheese. Signs announce that "Eggs Guaranteed Fresh!" Half of the case is given over to eggs, while the other half has a tier of seven shelves for

## Customers Help Themselves



A view of the self-serve refrigerated display section of the Hinky-Dinky Supermarket in Omaha, Neb. At far left is the frozen food case, then an open egg and cheese counter, next to which is a small white enamel cabinet which houses the individual refrigeration unit serving the open case. At right is a milk and butter case.

mass display of cheese. Top of the case also serves for cheese display, featuring packaged cheeses that do not need refrigeration.

A case housing the individual refrigeration unit serving the open case is finished in white enamel and stands between the open case and a 12-foot butter and milk case. The latter has sliding panels of glass for the top compartment, and self-closing glass doors for the bottom compartment where milk and cottage cheese are kept.

Adjoining the butter case at a right angle is the line of meat cases. The latter are refrigerated by a humid-coil circulating refrigerating system which assures a correct temperature and proper humidity, thus preserving the freshness and flavor of every cut of meat.

Storage of fresh meats, frozen foods and other perishables is in separate compartments in the stock compartment just behind the wall where the refrigerated display cases stand, so that refrigerated foods need be carried the shortest possible distance from storage to display. A 25 x 10 ft. walk-in type cold storage box for meats is porcelain lined and refrigerated by the same humid-coil circulating system as the sales cases for meat.

An adjoining compartment, 10 feet long, two feet deep and three feet high, with reach-in doors, is used for storing frozen foods, while still another compartment is provided for dairy products and eggs. All have individual, automatic, thermostatic control, so that the right temperature for each type of food will be maintained constantly.

A woman clerk has been assigned the job to see that the self-serve refrigerated cases are kept supplied. She checks the cases each morning, and also keeps an eye on prospective

customers at the frozen food dispenser who may be hesitant or merely curious. By giving information and calling attention of the customers to advantages of frozen foods and explaining how it should be prepared for the table, she often initiates customers into the "frozen food habit."

The self-service cases are "tied together" by a porcelain canopy extending the length of the wall above them. Frosted glass panels are lighted from behind to give a shadow-box effect, and on each glass panel is a word, as follows: "Self-Service — Fresh — Frozen — Foods — Eggs — Cheese — Butter — Oleo — Milk — Cream — Lard."

All refrigerated cases were built by Hussman except the frozen food unit.

"Cool — Air Conditioned," banners are used on the windows during the summer months, as well as in a panel arrangement on the inside. Air conditioning has been a vital factor in building up the market's huge volume of business, stated Mr. Breen.

Regardless of the temperature or condition of outside weather, patrons are comfortable and refreshed inside the new, streamlined store. All-weather air conditioning not only controls the temperature, but filters all air entering the store. The air conditioning system, incidentally, is by Westinghouse.

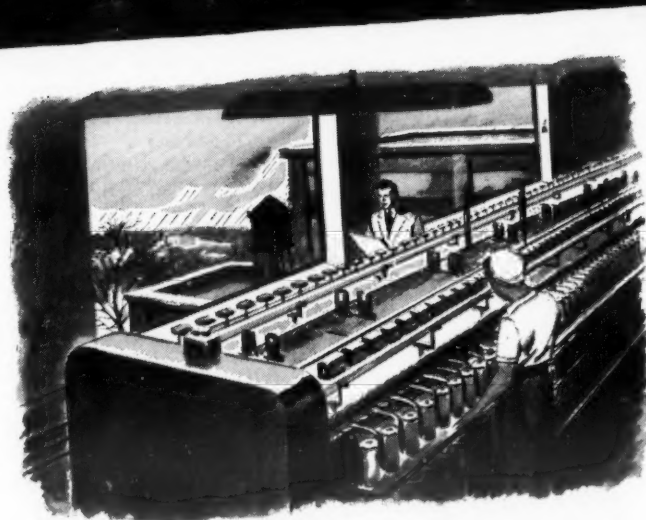
Frozen foods are as high a profit department as the produce department, which is very good, points out Mr. Breen. Frozen foods stocks are turned about 12 times a year.

Demand for frozen foods is definitely on the increase, the Omaha man believes, and he could sell two or three times as much frozen fruits, vegetables, fish and poultry as he has been able to get. In view of this demand, the management is planning to double the frozen food space.

# RS about TWINDOW

TRADE-MARK

## ov with BUILT-IN Insulation



densation on the glass, assuring clear vision. And since no dirt or dust can reach its sealed-in surfaces, Twindow is as easy to clean as an ordinary window.

**QUESTION . . .**  
Does TWINDOW require some special installation technique?

**ANSWER . . .**  
No. Twindow is an easily handled unit, and installs as simply as a single window pane.

*We regret that current production is not meeting demands. Deliveries must continue slow until new facilities are completed. When planning new construction or modernization, we suggest you get in touch with our nearest branch to determine if our delivery schedule will permit your use of this finest of insulated windows.*

Pittsburgh Plate Glass Company  
2310-6 Grant Building, Pittsburgh, Pa.

Please send me, without obligation, complete facts about TWINDOW, the window with built-in insulation.

Name.....  
Address.....  
City..... State.....

**Just how well does TWINDOW insulate?**

**ANSWER . . .**  
Twindow reduces heat loss through windows to less than half that experienced with a single pane of glass. This insulation decreases the load on heating or air-conditioning equipment.

**QUESTION . . .**  
What effect does TWINDOW have on room comfort?

**ANSWER . . .**  
Twindow makes areas close to windows just as comfortable as other parts of the room. It minimizes drafts and helps to keep temperature and humidity at proper levels.

**QUESTION . . .**  
Can TWINDOW help eliminate the nuisance of fogged windows?

**ANSWER . . .**  
Yes. Except under extreme conditions, Twindow's sealed air space prevents con-

COMPANY

## NATIONAL

—one of America's foremost  
slant-type

### DRY BEVERAGE COOLERS



One Week's Delivery

in lustrous BLACK MOROCCO finish with stainless steel doors and trim or all STAINLESS STEEL top, front and sides. 4 popular sizes.

Write for catalogue.

**NATIONAL COOLER CORP.**  
1600 Woodland Ave. Cleveland 15, Ohio



## Dairy Industry to See Latest Refrigeration Items for Field at Atlantic City Exposition

WASHINGTON, D. C.—Dairy processors will get a look at refrigeration's latest contributions to their business during the Fifteenth Dairy Industries Exposition in the Atlantic City Auditorium Oct. 21-26.

A number of manufacturers in the refrigeration industry will display a variety of products at the show being sponsored by the Dairy Industries Supply Association.

The Exposition will be staged concurrently with the annual convention of four other organizations: the International Association of Milk Dealers, the International Association of Ice Cream Manufacturers, the International Association of Milk Sanitarians, and the National Association of Retail Ice Cream Manufacturers.

It will be DISA's first such meeting

in five years. Record-breaking attendance is expected.

More than 250 exhibitors are scheduled to display in excess of 500 kinds of necessities for modern dairy processing. Among equipment and supplies to be displayed by the 200-odd DISA member companies taking part in the show will be:

1. Frozen food cabinets with fruits custom-packed for the ice cream industry.
2. Sweet water coolers.
3. Ice-flaking machines and automatic ice-makers in operation.
4. Ice cream vending tricycles and pushcycles.
5. Representative models of standard soda fountain units, luncheonette equipment, bobtail units, ice cream cabinets, counters, backbar bases, and carbonators, and a 22-ft. wall-type,

dry, all-steel soda fountain, with carbonator.

6. A motor-driven ice cream cutting machine, and a motor-driven bag-opening machine.

7. A retail milk-delivery unit with newly-designed body and chassis to increase efficiency of delivery: short wheel-base and turning radius.

An incomplete list of exhibitors included the following firms from the industry: Anheuser-Busch, Inc.; Bastian Blessing Co.; Cherry-Burrell Corp.; Dole Refrigerating Co.; Frigidaire Division of General Motors Corp.; The Kalva Corp.; Kelvinator Division of Nash-Kelvinator Corp.; Kold Hold Mfg. Co.

Liquid Carbonic Corp.; C. Nelson Mfg. Co.; Savage Arms Corp., refrigeration division; The Stangard-Dickerson Corp.; Emery Thompson Machine & Supply Co.; Weber Showcase & Fixture Co.; and York Corp.

The exposition will include educational as well as commercial displays. Definite supply and equipment displays will be presented only by DISA member companies.

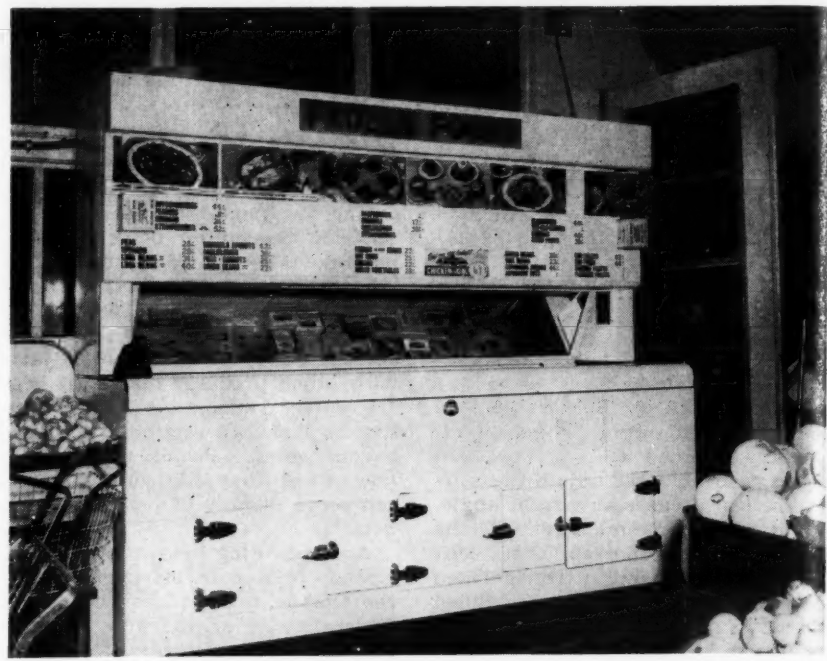
A recent DISA announcement said good housing accommodations were still available for dairy processors and others directly concerned with the industry but not affiliated with convening associations. Requests for reservations can be made to the Atlantic City Housing Bureau, 16 Center Pier, Atlantic City, N. J., and should include the number of persons involved, the extent to which they can "double up," dates of arrival and departure, desired rates, and hotel preferences.

Exposition management matters are being handled in DISA's headquarters in the Albee Bldg., Washington 5, D. C.

### Big Installation Planned In Remodeled Dairy

TORRINGTON, Wyo.—The Golden West Dairy has taken over the Roc Dairy here and is making plans for one of the finest dairies in the state, including a major refrigeration installation. The new plant will be housed in a \$40,000 building to be constructed of tile throughout, and with the latest equipment of all kinds.

### Try This on Your Display Case!



Color pictures of dishes prepared from frozen foods currently being stocked in the Tyler open display case shown above have aroused great customer interest at Kriwanek's Market in St. Louis. The pictures, obtained from distributors and national food advertising in magazines, are changed as the occasion demands. The reflector at the back of the case shows the customer what frozen foods are on hand. However, Kriwanek's has deliberately mixed up the packages so that the customer will handle several before he finds the one he wants. The display case above has a refrigerated space that can blanket eight cases of frozen food in cold air. The three doors at the bottom open into reserve storage space that can accommodate 12 additional cases.

## Photos of Tasty Frozen Food Dishes Increase Sales for St. Louis Market

ST. LOUIS—Sales of frozen foods at the Kriwanek's Market in St. Louis, have jumped more than 30% since the management purchased a new open-type display refrigerator, and adopted a policy of using pictures of cooked frozen food dishes to stimulate the housewife's buying urge.

Kriwanek's formerly kept frozen foods in a standard lid-type frozen foods case near the meat market. Sales here were slow, even when butchers suggested them to round out meals limited by lack of meat, and even during the canned food rationing period, frozen foods sales were not outstanding.

"When we saw that it would be necessary to add better display and refrigeration facilities, we asked our customers what they would like in the way of frozen foods," a store official explained. "Approximately 90% confessed that they had often planned to try frozen foods, but had never gotten around to it. They had little idea of the variety offered, and told us that they would probably buy more if they could see the whole lineup at a glance."

Armed with this information, from questioning upwards of a hundred housewives, Kriwanek's ordered a new Tyler open display case which is now one of the most attractive frozen foods refrigerators in St. Louis. It is 8 ft. long by 7 ft. high, the upper 3 ft. composed of a display panel. Below this, the refrigeration space is 2 ft. wide by 2 ft. deep, large enough to accommodate eight cases of frozen foods under a blanket of cold air. A line is marked around the inner walls, to remind employees to keep frozen foods always below that level for perfect refrigeration.

Three doors at the bottom of the case open into reserve storage space sufficient to maintain 12 more cases of frozen food for quick replacement in the open bin. This is inventoried

daily for a quick call to frozen foods distributors when there is a run on a specific product.

With these facilities, sales leaped immediately, according to the management. The varieties of frozen foods were deliberately "mixed up" so that the customer reaching into the open display space sees or handles half a dozen products on an average before finding whatever she originally looked for. This started off new purchasers of such items as precooked foods, fruit, fish, etc.

Still, it was believed, more could be accomplished toward getting more women started on using frozen foods. Remembering that many women had stated that they had no idea of the varieties offered, Kriwanek's instituted a policy of "picture merchandising"—using the broad area over the frozen foods case to show colorful photos of dishes prepared with frozen foods.

As pictured, the panel has a strip of color photos at all times, some of which are supplied by frozen foods distributors, and the others cut from national food advertising in magazines, from posters, etc.

No photos are shown which do not correspond with items in the frozen food case—and thus the woman whose buying impulse is enticed by color photos of a bowl of baked beans and another of tasty green peas may be sure of finding them ready at hand.

This simple "picture merchandising" idea has actually worked wonders, according to Kriwanek's. Not only do the pictures stimulate customers shopping through the store at sight, but they are used by store personnel to make suggestions.

"When a customer complains that food shortages make her meal planning difficult, we can quickly suggest the frozen foods line, pointing out such items as quick frozen chicken ala king, etc.," it was pointed out.



### MECHANICAL REFRIGERATION

THE WATCHDOG OF THE NATION'S FOOD SUPPLY



### USE LARKIN

Humi-Temp Forced Convection Units—Patented CROSS-FIN-COILS—Bare Tube Coils—Disseminator Fans—Heat Exchangers—Evaporative Condensers—Instantaneous water Coolers—Zinc Fused Steel Plate Coils—

See your jobber or write for details now.

**LARKIN COILS,**  
519 Memorial Drive, S.E., Atlanta, Ga.



## FALL IN LINE WITH FOGEL

JOIN OUR HUNDREDS OF SUCCESSFUL DISTRIBUTORS  
SELL OUR COMPLETE TOP-QUALITY LINE.

INTERESTING PROPOSITION TO QUALIFIED DISTRIBUTORS

A FEW TERRITORIES STILL AVAILABLE. WRITE TODAY!



**FOGEL REFRIGERATOR COMPANY** Since 1899

5400 Eadom St., Philadelphia 37, Pa.



QUICFREZ Model No. 1245 12.5 Cu. Ft. with Separate Freezing Compartment and Divided Storage.

## SINCE 1939...

With a long experience background in the building of Farm Locker Plants, SANITARY'S specialized skill and know-how in this field insure utmost customer satisfaction.

## SANITARY REFRIGERATOR CO.

FOND DU LAC, WISCONSIN

REFRIGERATOR MANUFACTURERS FOR OVER 40 YEARS  
FARM LOCKER PLANTS SINCE 1939



## DON'T MISS the 1946 TRADE-IN MANUAL!

The only COMPLETE DEALER GUIDE on HOME REFRIGERATION

Identify more than 2900 refrigerators manufactured since 1928. Complete specifications—More than 900 photographs—Sound trade-in values. Pocket-Size—256 pages.

SEND \$5 WITH ORDER OR REQUEST C.O.D. SHIPMENT

**STANDARD REFRIGERATOR TRADE-IN MANUAL CO.**  
503 WEST 43rd STREET NEW YORK 18, N. Y.



## INSIDE DOPE

by GEORGE F. TAUBENECK

(Concluded from Page 1, Column 1)  
present situation gives great weight to reductions that can be made now."

### Put Off Until Tomorrow

Reviewing the major expenditure schedules of the Federal budget for fiscal 1947, the C.E.D. cites areas of possible reduction or postponement of government appropriations—with emphasis on postponement wherever elimination proves impossible.

"Postponement of worthwhile but not urgent expenditure projects now will help provide a backlog of useful expenditures that can be drawn upon when counter-deflationary measures are needed," this group of businessmen points out.

The Committee re-affirms its belief in the necessity for substantially lower taxes as a basic long-run policy, stating that:

"The tax structure and the budget should be drawn so as to make possible substantial reduction of the Federal debt at a high level of employment. As much debt should then be retired as is consistent with maintaining high levels of employment and production. When we are through this costly aftermath of war, we shall again urge the substantial reduction in taxes required by this policy."

"In the meantime, if cash outlays of the amount recommended cannot be quickly eliminated or postponed, and if inflationary pressures are not brought under control by other means, tax increases represent the next effective defense available in the fiscal field."

"We repeat our hope that the need for tax increases may be avoided by sufficient action on other fronts now. But it would be prudent for those responsible for tax policy to take steps now to prepare for the possible need to raise tax rates early in 1947."

The C.E.D. repeatedly emphasizes that Federal fiscal policy alone cannot be effective in fighting inflation—that the cooperation of business, labor, agriculture, consumers, and state and local governments will be required to increase production and reduce spending—that "every dollar by which any economic unit can reduce its expenditures in relation to its receipts is a net gain in the drive against inflation."

### How to Protect the Dollar

Here are seven essential elements in Free Enterprise's drive for rehabilitating America's strength and stability, in a nutshell:

1. Efforts of management, labor, and government to increase productivity.
2. Restraint by individuals, acting singly or collectively, in raising

prices, wages, and salaries in recognition of the common interest in avoiding a wage-cost-price spiral.

3. Restraint by individuals and businesses in making deferrable expenditures at the present time.

4. Restraint by State and local Governments in making expenditures not urgently needed now.

5. A monetary policy to help prevent further expansion of expendable funds in the hands of the public.

6. A vigorous campaign on the part of the Treasury to sell, and keep sold, Series E and F bonds of small denominations.

7. A vigorous policy to reduce Federal expenditures and maintain sufficient revenues to yield a large excess of receipts over expenditures in the fiscal year ending June 30, 1947.

The best brains of American business have helped formulate this program for recovery. Let's all get behind it!

If there are simple, pleasant, and certain ways to avoid serious inflation, nobody has yet found them.

Cutting and postponing governmental expenditures is not easy. Raising taxes is not pleasant.

But if we wish to live in a dynamic free society, we must accept the responsibilities of free citizens.

This is one of the great postwar tests of the ability of a free society to keep its house in order. It's for sure that we cannot afford failure.

### Yes, It Minds the Baby

An air conditioned crib which will "mind the baby," is the latest contribution to the home appliance industry. The crib, which may retail for about \$250, was developed by Dr. B. F. Skinner, Professor of Psychology at Indiana University.

Occupying about the same floor space as an ordinary crib, the cabinet is composed of plywood, masonite, and insulating board. A removable hardwood frame, with a 10-ounce duck covering, forms the mattress.

This new appliance is equipped with a one week's supply of sheeting, about 10 yards in length, which can be changed by releasing a simple lock. The sheeting is supplied from a compartment at one end. It covers the mattress, and ends in a ventilated compartment.

Air caught in the crib confines is heated by an ordinary light bulb housed in an insulated compartment in the base of the cabinet. This simple trick eliminates the need for bogging down the baby with bulky clothing or covers to keep him warm.

A filter, through which the air is drawn by convection, removes 90% of household dust and 97% of larger pollens such as ragweed, it is claimed, thus protecting the baby from hay fever attacks and similar discomforts.

Air is heated and distributed to the space under the mattress by means of a baffle, while humidity is controlled by heated air passing over an adjustable wick. A Saran-screened opening in the ceiling, with another baffle, provides an air exhaust.

A thermostat controls inside temperature so that it cannot deviate more than one degree without sounding a warning buzzer.

Also, a small blower is installed for summertime use. When a drop in temperature occurs, the blower is automatically turned off and the heating system started.

During hot days and nights, a tray of ice cubes placed at the air intake maintains a cool atmosphere for the baby.

(Are you still with us? Wait a minute . . . there's more coming.)

Plexiglas doors which close on a sponge-rubber gasket comprise one of the crib's walls. Sound-absorbent material covers the ceiling and the upper half of the walls to shut out annoying external noise. However, this noise insulation does not interfere with the parent's ability to hear sounds of crying issuing from the crib, it is said.

### Got Real Life Test

Dr. Skinner testifies that he has personal knowledge regarding the value of the crib, having successfully used it throughout the lifetime of his now two-year-old daughter.

This appliance enables the baby to devise its own routine around the feeding or bathing schedule, he insists, and he points out as an example the instance in which his daughter's feeding schedule was changed from four to three meals a day. The child then began to awake an hour before breakfast time.

However, by raising the crib temperature, thus helping her to retain

the warmth from her evening meal, her waking was postponed an extra hour, the inventor relates.

Controlled temperature allows more freedom of action, and keeps the baby from crying "for exercise," he states. His daughter has developed strong leg, stomach, and back muscles, and has been exceptionally free from respiratory infections.

Dr. Skinner denies that use of this new home appliance would cause the

child to be starved for affection. He declares that his daughter sees everything that goes on, and plays "peek-a-boo" with visitors.

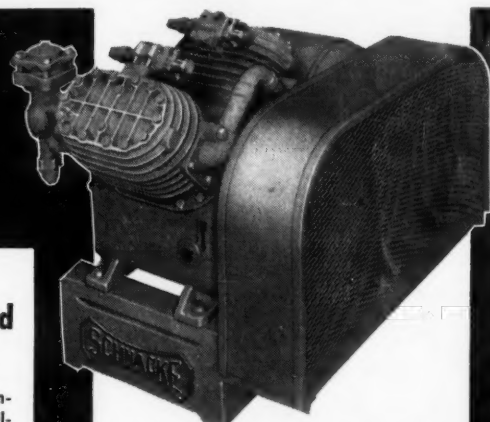
When anyone suggests that the apparatus might encourage neglect, Dr. Skinner retorts that "easier care is better care." The mother is less apt to place a child back in a damp crib when it is possible to have a dry one in five seconds, he argues.

Applicants for franchises will please form on the right.

## SCHNACKE AIR CONDITIONING AND REFRIGERATION COMPRESSORS

### Designed for Lasting Durability and Low Operating Cost

This advanced Vee type compressor, Model F, has two cylinder blocks mounted at 90° angle. A compression stroke is completed at every quarter crankshaft revolution assuring a smooth flow of refrigerant, even motor torque, and easy starting. With refrigerant-cooled, replaceable cylinders, high quality anti-friction bearings, and force feed lubrication, Schnacke compressors can be relied upon for lasting durability at low operating cost.



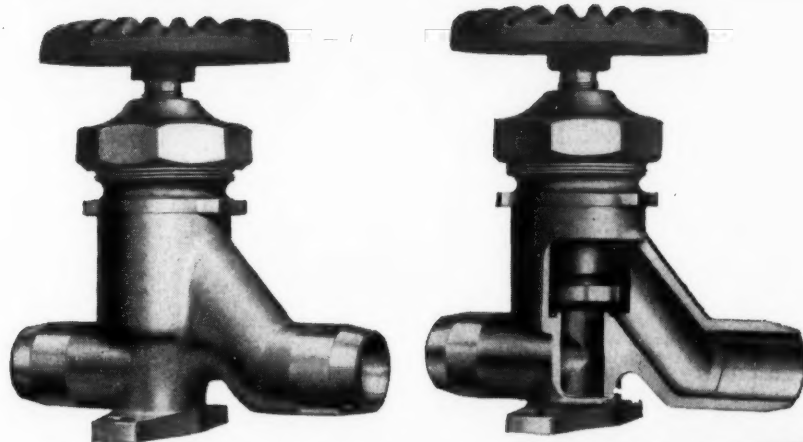
### 15 to 50 Horsepower

Available in 4 cylinder model for use with 15, 20, and 25 H.P. motors, and an 8 Cylinder Model for use with 30, 40, and 50 H.P. motors. (4 Cylinder Model SF204 shown above.)

Engineering data sent promptly upon request from engineers, contractors, dealers, and distributors.

**SCHNACKE, INC.**

1016 E. Columbia St. Evansville, Ind.



## AN *Extension* OF Sizes

### NOW INCLUDED IN OUR LINE OF TRIPL-SEAL DIAPHRAGM VALVES

These valves incorporate all the advantageous features of our famous TRIPL-SEAL Diaphragm Valves.

### HERE ARE SOME OF THEM

Because of the small amount of movement, the multiple diaphragm in TRIPL-SEAL Valve is never deflected past its normal center; thus immeasurably prolonging both its life and the life of the valve in service.

The multiple diaphragm has approximately 20% increased surface area over more conventional types of diaphragms. A single turn only is necessary to open or close the TRIPL-SEAL Valve.

### TRIPL-SEAL

Positive sealing at three essential points in the valve is adequately provided for—a back seat with valve in open position,—the multiple diaphragms,—and a packing around the stem. (This packing insures constant seal between pressure lines and diaphragm chamber.)

The stem of the TRIPL-SEAL Valve is provided with a sixty degree bevel, thus procuring the most desirable wedging action for positive and easy closing. It is manufactured from Tuf-Stuf, a strong, corrosion-resistant alloy.

The stem does not rotate, and is constantly guided into the same position against the seat by a cylindrical guide, so processed as to eliminate any possibility of distortion.

The body and cap of the valve are forged brass to eliminate seepage and to withstand frost action; mounting lugs are forged integrally with the body to provide the ultimate in mounting strength.

The hand-wheel is exceptionally strong, and is so designed that it provides a convenient grip for manual operation.

Valves are furnished in a wide range of styles and sizes.

Order from your jobber.

**MUELLER BRASS CO.**  
PORT HURON, MICHIGAN

## TYPHOON

A RESPECTED NAME  
IN AIR CONDITIONING

### 3 and 5 TON SELF-CONTAINED UNITS

All-purpose, handsomely designed, smooth functioning air conditioning units with all copper condenser and liberally designed coils—removable outlet box for use with duct system—removable panel in back of outlet box for additional grills where front and back air distribution is desired in center of room . . . two way adjustable deflecting grill . . . knock-out for fresh air connection . . . removable one-piece panel in front for easy accessibility. The cabinets are made of furniture steel . . . crackle finish. Also available with one or two row heating coil.

### TYPHOON PRODUCTS

PROP-R-TEMP Self-Contained Air Conditioning

Units, 3 and 5 Tons.

TYPHOON LOW-SIDES, 3 and 5 Ton Units

TYPHOON EVAPORATIVE CONDENSERS.

MONSOON Heating, Direct Expansion and

Water Coils.



ICE AIR CONDITIONING CO., INC.  
794-6 UNION STREET · BROOKLYN 15, N. Y.



## With Consumers Waiting for Nationally Known Radios, N. Y. Stores Reduce 'Off-Brand' Prices

NEW YORK CITY—In the face of an increasing tendency on the part of the public to wait for nationally known receivers, a drop in the prices of "off-brand" table model radios was reported Aug. 30, with one of the leading radio store chains making a 20% reduction.

After his firm had held sales featuring the 20% cut, a spokesman for Vim Radio & Sporting Goods Stores, Inc., told the press: "Our policy is to clear stocks for standard brands. We are not buying anything that didn't have acceptance before the war." He added that the advent of standard brands has "killed the market for off-brands."

Four models were featured in the Vim reduction, with a drop of \$5 on one and \$6 on the other three. The new prices were quoted as \$19.95, \$23.95, \$23.75, and \$27.15. In addition a line of electric phonographs was marked down from \$27.95 to \$22.35. In one sale the company offered 1,000 sets and, in another, 750.

Although no other retail outlet announced price cuts as sweeping as Vim's, prices on individual sets were marked down at Davega-City Radio, Inc., and some department stores here. Davega has been promoting a table model combination radio-phonograph for \$89.95, reduced from a ceiling price of \$102.95.

A Davega spokesman declared, however, that the concern does not believe "it is necessary to do any price cutting on radios in order to do a volume business at present." Pointing out that many makes and models are hard to get, he said the store had many back orders on hand.

There have been insistent trade reports, nevertheless, that sales on table models, particularly the lesser known makes, have fallen off during the last few months. Whether seasonal or not, the slump is aggravated by a production rate which is outstripping prewar output. And, it was further noted, between 80 and 90% of this production is in table models.

Explanation of the emphasis on table model production, it is said, is the large number of warborn radio manufacturers who entered the field to fill the demand for sets.

## Monsanto Expands Styrene Producing Facilities To Aim for 80,000,000-Lb. Annual Output

ST. LOUIS — Monsanto Chemical Co. expects to produce polystyrene moulding compounds at a rate of more than 80,000,000 lbs. annually during 1947, according to Felix N. Williams, vice president.

Polystyrene plastics, extremely light in weight, resistant to acids, alkalis, and many solvents, and an excellent electric insulating material, is in great demand for use in many products including refrigerators, Mr. Williams said.

To bring about this production feat, thus boosting the company's production of the plastic, more than 11 times the prewar rate, Monsanto has purchased a former government owned styrene plant at Texas City,

Tex., for \$9,550,000. Mr. Williams declared. This plant has a production capacity of 50,000 tons, he added.

The company is also building another major plant to adjoin this one and is enlarging its Springfield, Mass., plastics plant, he said.

Mr. Williams expects the anticipated 1947 production to add \$20,000,000 to Monsanto's sales volume. He said that the firm is now selling polystyrene at 25 cents per pound as compared with the prewar price of 72 cents per pound.

Styrene, the base for the polystyrene plastics, is a hydrocarbon chemical made from petroleum or coal tar.

**WILSON**  
 SELF-CONTAINED  
 AUTOMATIC  
 HIGH WATER LEVEL  
**ZERO-FLOW**

### STOPS MILK SPOILAGE



Wilson ZERO-FLOW  
MODEL ZFB HX50

**COOLS**  
 THE DANGER ZONE  
**FAST**

Packaged-Unit Milk Cooler  
Sizes from 4- to 24-can capacity

TO CAPTURE AND HOLD

## THE FARM MARKET

*Specify Genuine "Refrigeration by Wilson"*

• FARM MILK COOLERS • FARM FREEZERS • FARM REACH-IN REFRIGERATORS • FARM WALK-IN REFRIGERATORS

For Franchise Information, Address Dept. II WILSON REFRIGERATION, INC., Smyrna, Delaware

*Know the difference between*

**CONTRACT MANUFACTURING**

*and Sub-Contracting ?*

★ Some people think they're the same thing.

But our business is contract manufacturing...and here's our definition.

Contract manufacturing is high-production, straight-line manufacturing, with a production center for each major product... and always with an efficiency that drives costs down.

Contract manufacturing is management, engineering and production talent so flexible that it quickly takes over your problems and even beats the record you might have set in

your own plant.

Contract manufacturing is use of the most efficient tools available by a large, skilled veteran labor force that recognizes its responsibility for meeting production schedules.

That's the way Hupp practices contract manufacturing. And many of America's leading industrial firms have found it good.

Hupp can be a manufacturer's manufacturer or a distributor's manufacturer... providing completely integrated service from blue-

print to the packaged product, or stopping at any point in between, as you wish.

CALL HUPP—AN EXPERIENCED CONTRACT MANUFACTURER.



## Retail, Servicing, Distributor Prices Assigned By OPA on 12 Universal Electric Water Heaters

NEW BRITAIN, Conn.—Maximum retail delivered prices, excluding federal excise tax, for sales of 12 models of "Universal" electric water heaters

manufactured here by Landers, Frary & Clark have been established, as follows:

Model No.	Article	Zone 1	Zone 2	Zone 3	Zone 4
WH-9130-1	30-gal., single element	\$80.79	\$81.34	\$82.26	\$85.84
WH-9130-2	30-gal., double element	88.31	88.86	89.78	93.36
WH-9130-3	30-gal., double element	88.31	88.86	89.78	93.36
WH-9350-1	50-gal., single element	97.26	97.97	99.15	103.73
WH-9350-2	50-gal., double element	105.86	106.57	107.75	112.33
WH-9350-3	50-gal., double element	105.86	106.57	107.75	112.33
WH-9586-1	86-gal., single element	127.16	128.25	130.09	137.16
WH-9586-2	86-gal., double element	134.68	135.77	137.61	144.68
WH-9586-3	86-gal., double element	134.68	135.77	137.61	144.68
WH-8130-1	30-gal. table top, single element	91.55	92.11	93.06	96.70
WH-8130-2	30-gal. table top, double element	103.38	103.94	104.89	108.53
WH-8130-3	30-gal. table top, double element	103.38	103.94	104.89	108.53

On sales to "servicing dealers, OPA set prices at the following levels:

Model No.	Zone 1 on shipments of— 1-4 Heaters, Inclusive	5-or More Heaters	Zone 2 on shipments of— 1-4 Heaters, Inclusive	5-or More Heaters	Zone 3 on shipments of— 1-4 Heaters, Inclusive	5-or More Heaters	Zone 4 on shipments of— 1-4 Heaters, Inclusive	5-or More Heaters
WH-9130-1	\$53.04	\$51.19	\$53.59	\$51.74	\$54.51	\$52.66	\$58.09	\$56.24
WH-9130-2	57.94	55.71	58.49	56.46	59.41	57.56	62.99	61.14
WH-9130-3	57.94	55.71	58.49	56.46	59.41	57.56	62.99	61.14
WH-9350-1	63.89	61.66	64.60	62.37	65.78	63.93	70.36	68.51
WH-9350-2	69.49	67.06	70.20	67.77	71.38	69.53	75.96	74.11
WH-9350-3	69.49	67.06	70.20	67.77	71.38	69.53	75.96	74.11
WH-9586-1	83.66	80.76	84.75	81.85	86.59	83.69	93.66	90.76
WH-9586-2	88.56	85.48	89.64	86.57	91.49	88.41	98.56	95.48
WH-9586-3	88.56	85.48	89.64	86.57	91.49	88.41	98.56	95.48
WH-8130-1	60.05	57.95	60.61	58.51	61.56	59.46	65.20	63.10
WH-8130-2	67.76	65.38	68.31	65.94	69.27	66.89	72.91	70.53
WH-8130-3	67.76	65.38	68.31	65.94	69.27	66.89	72.91	70.53

These prices to "servicing" dealers are f.o.b. point of shipment, except when the manufacturer ships directly to the dealer when the above prices become f.o.b. dealer's city, continued OPA.

Ceiling prices on sales to distributors by any person are not to exceed the following:

Model No.	
WH-9130-1	\$42.51
WH-9130-2	46.53
WH-9130-3	46.53
WH-9350-1	51.13
WH-9350-2	55.73
WH-9350-3	55.73
WH-9586-1	66.64
WH-9586-2	70.66
WH-9586-3	70.66
WH-8130-1	48.25
WH-8130-2	54.58
WH-8130-3	54.58

## Only 1% Rise In Consumer Credit Reported for July

WASHINGTON, D. C.—Outstanding consumer credit increased slightly during July, the Federal Reserve Board has reported.

The gain amounted to less than 1%, or \$52,000,000. Total credit at the end of July stood at \$7,808,000,000, a Board statement said.

Only automobile sales credit and installment loans showed gains during the month. Charge-account indebtedness dropped about 2%, less than usual for summer months, according to the Board.

# STANGARD

*Prime Surface*

## COLD PLATES

For Maximum  
Refrigerating Efficiency



### THE STANGARD-DICKERSON CORPORATION

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STANGARD KNOWS REFRIGERATION

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## Repairmen's Tips, 125,000 Mailing Addresses Provide Hot Leads for Plumbing Dealer's Appliance Salesmen

SAN FRANCISCO — Feeling that plumbers have "first crack at much appliance business because they get inside the home often and can see what is actually needed, Frank C. Brodie, head of Brodie's plumbing and heating dealership here, built a \$50,000 appliance showroom and service shop and acquired several appliance franchises to carry through on his idea of "selling appliances by direct mail" in conjunction with his 58-year-old plumbing and heating business.

"We're going after the appliance business in a slightly different manner," Mr. Brodie explained, "with three sources of leads which we think will carry us along after the seller's market is a thing of the past."

"First is our direct mail program which will constantly reach 125,000 San Franciscans with broadsides, personalized letters, and monthly postcards listing not only our appliance lines, but refrigeration and appliance services, heating repair and installation services, and our long experience in meeting the problems of the homeowner," he continued.

Second source of leads employed by Brodie's is the information gleaned by journeymen plumbers when on repair calls.

Although journeymen plumbers, averaging six to eight home calls each day, will look for appliance leads, they will not do any selling, according to Mr. Brodie.

"I believe appliance selling is a specialty job," he explained, "and that the journeyman could not do an efficient plumbing repair job if he is to try to sell, also. Besides, housewives would be paying for the sales time, and would have every reason to be irked."

"Our sales crew will be distinctly salesmen, but they will operate in close conjunction with the plumbing and heating service," he stated.

Third factor in the merchandising of appliances by Brodie's is an entirely separate crew of specialty salesmen who will follow up leads uncovered by journeymen plumbers and the direct mail system. Floor leads will be turned over to the salesmen, but no cold canvassing will be done, according to Mr. Brodie.

All direct mail operations are car-



These files contain the names of 125,000 San Franciscans who receive direct mail appliance advertising from Brodie's plumbing and heating dealership. Replies from the advertising, plus tips from plumbers, give Brodie his leads for appliance sales.

ried on in a separate room having six cabinets containing the 125,000 addressograph plates used in getting out the monthly mailings.

Four full time employees are required to keep up this bombardment of direct mail, which Mr. Brodie claims is "the most effective form of home advertising."

Appliance promotion used will quote Brodie's 58-year experience, speedy appliance repair service, and a long list of home appliances.

With facilities to contract all steps in installation within his own organization, Mr. Brodie plans an aggressive sales campaign for modern package kitchens at prices ranging from \$1,000 to \$1,500.

An operating model kitchen, all electric or combination, under the supervision of a home economist will be featured in the Brodie showroom.

The home economist in charge will operate regular weekly cooking schools and will go into private homes to give demonstrations.

Model kitchens will be completely installed by the Brodie organization, except for electrical wiring and painting. This, says Mr. Brodie, will eliminate many of the "headaches."

All Brodie employees are required to wear white coveralls, white shirts, and have polished shoes on the job, no matter what it is. There are 10

Brodie trucks which are referred to as "rolling billboards," advertising appliances and plumbing and heating service.

Mr. Brodie has not decided whether he will convert some of these trucks to handle the refrigeration and appliance end of the firm or whether he will purchase additional trucks to "bring the shop to the door."

It is the hope of Mr. Brodie eventually to produce trained service mechanics who can fix a faulty refrigerator compressor or replace a bad faucet with equal ease and skill.

## Shortages In Lumber and Cabinet Makers Stymie Radio Industry In Fight for Decontrol by December

WASHINGTON, D. C.—Shortages of wood for radio console cabinets and of cabinet makers to convert what wood there is into high priced cabinets are the main problems facing the radio industry in its attempt to get the business decontrolled by December, radio production executives reported.

Though the industry produced more than 1,300,000 sets in July and an equal number in June, according to figures released by the Civilian Production Administration, an estimated 80% of them were table models, with the remainder divided fairly evenly between auto and console models.

The Radio Manufacturers Association reported that its members produced during July 770,633 table model sets, 71,500 consoles and radio combination models, 110,375 auto sets, and 19,642 FM sets.

In order to get the industry decontrolled, however, the industry must prove that distributors and dealers have balanced stocks of a complete assortment of models on hand and that manufacturers are filling orders promptly.

The industry was slowly making

progress in bringing about a more equitable production it was shown in the CPA report which said that July production was not as heavily weighted by small models as June's, when 88% of production consisted of table sets.

One radio producer explained that the real trouble lay in the heavy competitive demand for lumber. Even where lumber is obtained, he pointed out, prewar cabinet makers have turned from the manufacture of cabinets, where specifications are more exacting and profit control much tighter, to engage in the furniture field where the same conditions do not exist.

OPA, he said, also paved the way for table model production by speeding price approvals on cheaper models before letting the producers know where they stood with console types.

Availability of plastics for table model cabinets and the ability of novelty woodworking establishments to produce table model cabinets even though they could not make the console types are additional factors in the present disparity, he declared.

## REDUCED VOLTAGE STARTERS

### for Squirrel-Cage Motors

Reduce starting current on your compressor circuits and prevent lamp flicker with Bulletin 640 or Bulletin 740 compression resistance starters. Ideal for network systems or where the power company imposes current limitations in starting large a-c motors. Write for bulletin, "Automatic Reduced Voltage Starters" containing complete information. Allen-Bradley Co., 1313 S. First Street, Milwaukee 4, Wis.



## ALLEN-BRADLEY

QUALITY

MOTOR CONTROL

## Ask Your Jobber for HASCOBILT Parts

### SUCTION and DISCHARGE VALVE, DISC, REEDS and SPRINGS

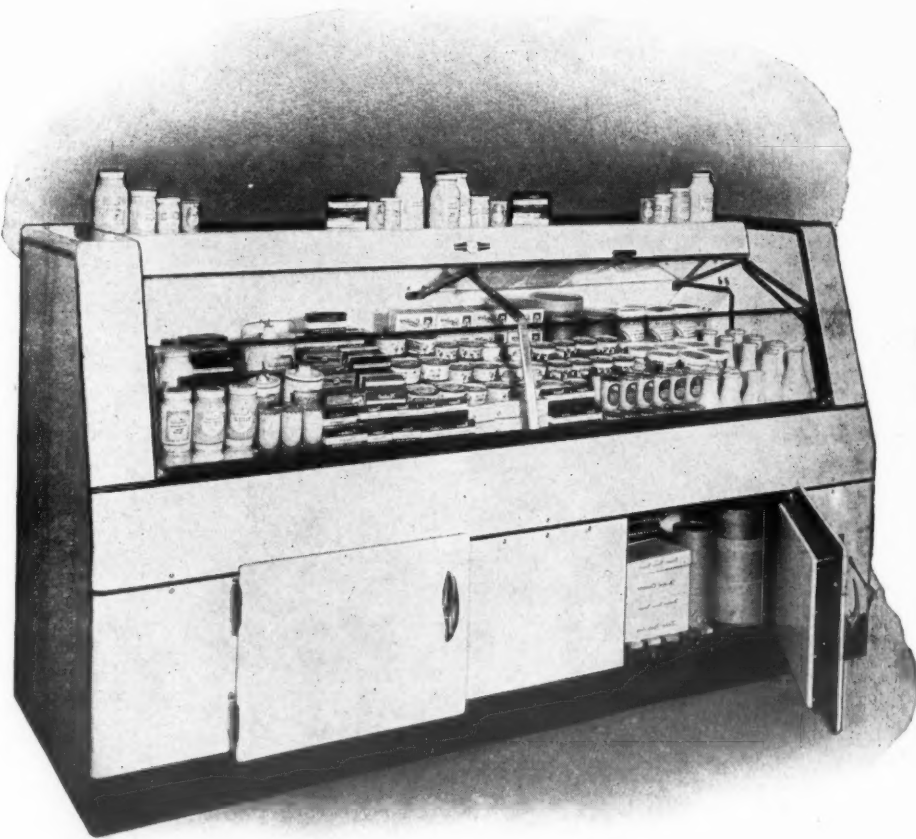
for Conventional and Hermetic Type Compressors

## HASCO, INC.

GREENSBORO, N. C.

If your jobber can't supply you, send for illustrated catalog and price list.

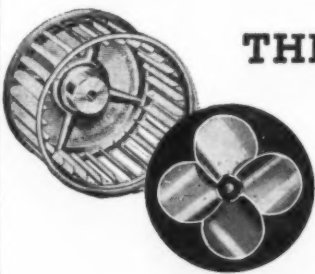
## BEHIND THE SCENE . . .



there's  
a  
Torrington  
Air  
Impeller

REFRIGERATOR manufacturers have found that the heat transfer of refrigeration coils can be increased tremendously by forcing air circulation around them with a fan (or blower wheel). In one case, using a Torrington air impeller in this way *quadrupled* efficiency. Torrington air impellers are also used in large display refrigerators to circulate the air inside the storage space so that temperature and humidity remain constant.

This is only one example of the ways in which manufacturers in widely diversified fields are using forced air circulation to increase the efficiency and convenience of their products. Have you thought about air in relation to your product? Torrington's research facilities and extensive experience are at your service on any problems or questions you may have. Simply write us at 10 Franklin Street; a copy of our Air Impeller Specification Sheet will be sent you without charge or obligation.



THE

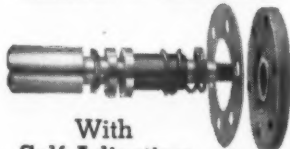
## TORRINGTON

MANUFACTURING COMPANY, TORRINGTON, CONN.

*Air Impellers for Every Purpose*

Specify **CHICAGO**

**SHAFT SEALS VALVE PLATES**



With Self-Adjusting Sleeve Lock.



Only Chicago valve plates have replaceable seats.

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20 NORTH WACKER DRIVE • CHICAGO 6, ILL.



## REFRIGERATION ACCESSORIES

- Instantaneous Water and Beverage Coolers.
- Oil Separators.
- Two-Temperature Valves.
- Accumulator Heat Exchangers.
- Equalizer Tanks.
- Controlled Temperature Photographic Processing Units.
- X-Ray Refrigerating Units.

## TEMPRITE PRODUCTS CORPORATION

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## Get These Profits

Refrigeration and insulation distributors make an extra profit selling the NEW

## MASTER FOOD CONSERVATOR

Master Manufacturing Corp.  
121 Main St. Sioux City 4, Iowa  
800,000 MASTER FOOD CONSERVATORS IN USE

## PURO ELECTRIC WATER COOLERS

BRANCHES IN PRINCIPAL CITIES

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PURO FILTER CORP. OF AMERICA

DRINKING WATER SPECIALISTS FOR 40 YEARS.

## Text of Amended Order Exempting Some Refrigeration from Housing Restrictions

**Editor's Note:** Because of its importance to the commercial refrigeration and air conditioning fields, the News is publishing in full the text of Supplement 1 to Veterans' Housing Program Order 1, as amended Aug. 30.

Chief change made by this amendment, as pointed out in the NEWS story last week, is a reclassification of "fixtures" which exempts water coolers, refrigerated display cases, soda fountains, and cooling towers from provisions of the order if they are not constructed as an integral part of a building.

Last May self-contained air conditioners not connected to ductwork, air conditioning systems for industrial process control, refrigerators, and refrigeration equipment in cold storage warehouses and locker plants were exempted from the order.

## PART 4700—VETERANS' EMERGENCY HOUSING PROGRAM

[Veterans' Housing Program Order 1, Supp. 1, as Amended Aug. 30, 1946]

## FIXTURES AND EQUIPMENT

§ 4700.2 (a) What this supplement does. Veterans' Housing Program Order 1 restricts construction and alterations of buildings and certain other structures, including alterations incidental to the installation of equipment. It also restricts the installation of fixtures and mechanical equipment, whether or not alterations to the structures are involved. The installation of other machinery and equipment is not restricted by the order. Paragraph (b) (3) of VHP-1 defines a fixture as "any article attached to a building or structure and used as part of it," and defines mechanical equipment as "plumbing, heating, ventilating and lighting equipment which is attached to the building and used to operate it." This supplement lists various specific items indicating whether or not they are fixtures or mechanical equipment under VHP-1. It also explains other provisions of VHP-1 applying to these installations.

(b) Fixtures and mechanical equipment. (1) The following articles are

considered fixtures and mechanical equipment if they are attached to a building or structure by nails or screws, or bolts, if they are connected with the plumbing or other piping system of the structure, if they are connected to the lighting system of the structure (except by connection to an existing outlet without installing new wires or a new outlet), if a base or foundation is built for the item, or if the item is cemented to the building or structure:

Air conditioning equipment (except when used for humidity or temperature control in industrial processing or as refrigeration equipment in a cold storage warehouse or a frozen food locker plant and except self-contained individual units with no duct systems).

Furnaces and furnace burner or boiler burner units.

Heating equipment.  
Kitchen cabinets.  
Lighting equipment.  
Marquees.  
Panelling.  
Partitions, wood or metal.  
Plumbing equipment.  
Signs, electric and other.  
Ventilating equipment.

Any other article falling within the definitions of fixture and mechanical equipment stated in paragraph (a) of this supplement.

(None of the above items include any item specifically listed in paragraph (b) (2) of this supplement.)

(2) The following articles are never considered fixtures or mechanical equipment:

Air conditioning equipment where required to provide humidity or temperature control for industrial processing and self-contained individual units with no duct systems.

Airport equipment such as cargo and passenger handling equipment, signalling equipment, obstruction marking equipment and equipment used for lighting runways or for signalling.

Altars, choir stalls and church pews.

Automatic fire protection sprinkler systems.

Barn equipment such as milking machines, hay or litter conveyors, stanchions and stalls.

Blast furnaces.

Control or testing equipment used for industrial or utility purposes or in a laboratory or hospital.

Conversion oil or gas burners installed in or attached to a furnace or boiler already in use in the building.

Conveyors.

Desks, chairs, and cafeteria and gymnasium equipment in a school or college.

Electrical precipitators.

Escalators, elevators and dumb waiters.

Food warming, dishwashing and food preparation equipment in a restaurant or institution.

Furnaces for heat treating or similar industrial purposes.

Hospital equipment such as X-ray machines and operating tables.

Lighting equipment for flood lighting airports, railroads or other outdoor operations.

Machine tools.

Post-office equipment such as letter boxes and letter drops.

Power generating or transmitting equipment such as boilers, generators, and transformers (except where the primary purpose of the equipment is to provide electricity or steam for lighting or heating the building in which they are installed).

Projection and sound equipment.

Radio towers and other transmitting and receiving equipment.

Refrigeration equipment, such as compressors, in a cold storage warehouse or a frozen food locker plant.

Scales.

Service station equipment such as gasoline pumps, hydraulic lifts, battery chargers.

Stokers installed in connection with heating equipment already installed in a building.

Storm windows, storm doors, screens, awnings and venetian blinds.

Stoves.

Theater seats.

Washing machines or dryers.

Other processing machinery and equipment.

Other machinery and equipment installed to provide a special service in a structure and not installed merely to operate the structure.

(3) The following articles are considered fixtures only if they are constructed as an integral part of the building or structure and cannot be removed without demolition of the article or substantial injury to the building or structure:

Bars.  
Bins.  
Bookcases.  
Booths.  
Cooling towers.  
Counters.  
Refrigerators.  
Show cases, including refrigerated show-cases.  
Soda fountains.  
Storage racks.  
Water coolers.  
(c) [Deleted Aug. 30, 1946.]

(d) Repairs to mechanical equipment. Paragraph (b) (2) of VHP-1 provides that greasing, overhauling, repairing, or installing replacement parts in existing mechanical equipment in all types of structures, is not covered by the order, regardless of whether the cost of the job is within the applicable allowance, under Supplement 3 to VHP-1, and the cost of such work need not be included in the cost of a job for the purpose of determining whether the job is within the applicable allowance under that supplement. This provision applies to plumbing, heating, ventilating and lighting equipment. This provision covers the replacement of parts in a piece of mechanical equipment when the present parts are no longer service-

able but does not cover the replacement of an entire piece of equipment. For example, it is permissible, under this provision, to replace the grates in a furnace but not to replace the entire furnace; to replace the tubes in a boiler but not to replace the entire boiler, unless the total cost of the replacement is within the applicable job allowance under Supplement 3 to VHP-1.

(e) Installation of exempt machinery and equipment. VHP-1 does not restrict the installation of machinery and equipment other than mechanical equipment. Paragraphs (b) (2) and (b) (3) of this supplement explain what equipment may be installed without regard to the provisions of the order. VHP-1 does, however, restrict the making of alterations to a building or other structure covered by the order in connection with the installation of such exempt machinery and equipment. For example, if a foundation is built inside a building to receive the equipment, or if partitions or new walls are installed to separate a machine from the rest of the plant, the cost of these building alterations must be computed in accordance with Supplement 3 to VHP-1 and if the cost exceeds the applicable allowance for the building involved under that supplement, authorization must be obtained for the work. However, it is not necessary to include in the cost of the building alterations the cost of the exempt machinery or equipment or the cost of labor engaged in installing the exempt machinery and equipment. For example, in installing elevators, which are covered by paragraph (b) of this Supplement, it would be necessary to count toward the cost of the job the cost (computed in accordance with paragraph (g) of Supplement 3) of preparing the shaft, of strengthening the building to support the elevator, and of constructing a penthouse or bulkhead on the roof of the building or a room in the basement to enclose the motors. It would not, however, be necessary to include in the cost of the job the cost of the elevator car, the guide rails between which the car runs, the sheaves, the motors, the cables or the doors or frames to the elevator shaft or the cost of labor engaged in assembling and installing this equipment.

Issued this 30th day of August, 1946.

## CIVILIAN PRODUCTION ADMINISTRATION

By J. JOSEPH WHELAN,

Recording Secretary.

[F. R. Doc. 46-15631; Filed, Aug. 30, 1946; 12:03 p.m.]

## Instructions on Filing Applications Outlined

WASHINGTON, D. C.—Detailed instructions telling how builders should fill out form CPA-4423 applications for non-housing construction or repairs restricted under Veterans' Housing Program Order 1 have been issued by the Civilian Production Administration.

In item 4c of the form the applicant must state the estimated cost of processing equipment to be used, excluding reused equipment. In item 5, the applicant is to state the estimated cost of the project, not including land, existing structures, and fees of engineers and architects. The item 5 figure is broken down into (1) the cost of fixtures and mechanical equipment, and (2) the cost of the structure.

Except for used equipment the figure entered under 4c should include the total cost or value of all the kinds of equipment and machinery listed under paragraph (b) (2) of Supplement 1. The 4c figure should also include cost of items listed under (b) (3) of the supplement, except fixtures.

Under item 5 the applicant must include the cost of those fixtures and mechanical equipment, which are listed in paragraph (b) (1) of the supplement, and the cost of items listed in paragraph (b) (3) when they are fixtures.

**ROUND THE CLOCK PROTECTION...**

**PLATE TYPE EVAPORATORS GIVE GREATER PAYLOAD SPACE**

Kold-Hold plates take up little space, leaving room for a larger payload. Regardless of the type of installation for meat, milk, frozen foods, ice cream, they protect and insure the freshness of the load through the longest trip by holding specified temperatures until the day's end.

Kold-Hold's over a decade of experience in designing, engineering and building refrigeration products to meet specific needs, is your guarantee for complete satisfaction on any truck installation.

Providing a cooler room on wheels, not only saves on spoilage, but also on man hours, as nothing needs to be removed from the trucks at night. With a simple extension from your existing cooling system to the Hold-Over Plates in the truck, you have a cooler room on wheels.

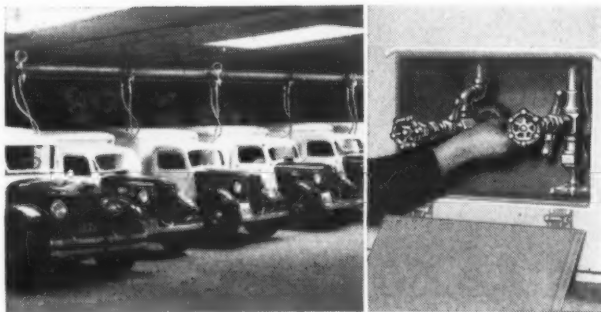
At the same time, Kold-Hold truck refrigeration costs less than ice, and Kold-Hold plates will outlast your truck body — and old plates can easily be adapted to meet the needs of your new equipment.

Write today for full information and a complete catalog.

## KOLD-HOLD

KOLD-HOLD MANUFACTURING COMPANY  
500 N. Grand Ave. Lansing 4, Mich.

**\* attend REMA** (Refrigeration Equipment Manufacturers Association Convention will be held in Cleveland Public Auditorium October 28 to October 31). See Kold-Hold equipment at this show in space 414



These two photographs show how the efficient system operates with direct connections to the ammonia line. Make and break connections are made within a few seconds.



## Langsenkamp Presents

1. OUR NEW 1946 REFRIGERATION CATALOG
2. OUR SOUTH BEND BRANCH IN THEIR OWN MODERN STRUCTURE AT 333 HYDRAULIC AVENUE

We recommend your examination of these two new additions to our 1946 program.

Indianapolis, Ind.

South Bend, Ind.

LANGSENKAMP COMPANY

Louisville, Kentucky

Evansville, Ind.



Got an aspirin, Thermo? These close coupled jobs give me a headache!

You'll need no aspirin with that Tenney TS-1. Scruffy! Just hook 'er up and operate.

Flexibility is the keynote that spells doom to headaches on tough jobs—when you use a Tenney TS-1 Thermo-static Expansion Valve. Take one in your hands and look it over. Read about it in Bulletin TV-46. Send for a copy

**TENNEY ENGINEERING, INC.**  
26 Avenue B • Newark 5, N. J. Telephone: BIGELOW 8-3905  
Manufacturers of Automatic Temperature, Humidity and Pressure Control Equipment



## 60 G-E Refrigerator Replacement Units Are Assigned Ceiling Prices by OPA

BRIDGEPORT, Conn.—New ceiling prices for 60 refrigerator replacement units rebuilt or manufactured by General Electric Co., which were announced just as OPA went out of existence temporarily last June 30, are still in effect, according to OPA officials. These prices were announced in price adjustment order SO 142, Order 157.

The new maximum prices supersede those established by Revised Order 88, as amended under RMPR 136 and apply to two G-E subsidiaries—the International General Electric Co. and the International General Electric Co. of Puerto Rico.

If any of the units covered by the revised order are sold by the manufacturer, distributor, or retailer with a four-year replacement contract, \$5 may be added to the listed ceiling price, OPA has ruled.

Any seller of these units may require that the buyer surrender the unit which he intends to replace with the newly purchased unit, but the seller does not have to make any allowance for the surrendered unit.

Ceiling prices permitted on sales of new or rebuilt units by the manufacturer to distributors are as follows:

Model:	Ceiling price for each unit	Model:	Ceiling price for each unit
CF1	\$44.99	DRA2	\$66.65
CF11	44.99	DRB3	88.28
CF2	48.42	D30	88.28
CF21	48.42	DRB31	88.28
CF22	51.85	D31	88.28
CF28	51.85	DR3	98.59
CH1	44.99	DRE3	98.59
CJ1	44.99	DR35	98.59
CJ2	48.42	D35	98.59
CE34	67.99	SD40	67.34
CE340	67.99	CB1	57.38
CE140	44.99	CB2	57.38
FBA1	44.99	CB3	57.38
CK1	50.51	CD1	57.38
CK15	50.51	CD2	57.38
CG1	50.51	CD3	57.38
CK2	57.38	CD11	57.38
CK28	57.38	CM1	57.38
CK30	60.81	CM2	57.38
CK35	81.42	CM32	53.60
DK1	50.51	CM311	53.60
CA1	53.60	CM312	53.60
CA2	62.53	CM33	53.60
LK1	74.55	CM34	74.55
LK2	74.55	CM35	74.55
DR1	54.60	FEA1	60.75
D15	54.60	FEA2	75.55
DR2	66.65	FEA35	111.44
D2	66.65	FCA1	56.50
		FCA2	63.75

Below are the prices permitted on sales by the distributor to the dealer, which include the excise tax and delivery to dealer:

Model:	Ceiling price for each unit	Model:	Ceiling price for each unit
CF1	\$49.71	DRA2	\$73.65
CF11	49.71	DRB3	97.55
CF2	53.50	D30	97.55
CF21	53.50	DRB31	97.55
CF22	57.29	D31	97.55
CF28	57.29	DR3	108.94
CH1	49.71	DRE3	108.94
CJ1	49.71	DR35	108.94
CJ2	53.50	D35	108.94
CE34	75.13	SD40	74.41
CE340	75.13	CB1	63.40
CE140	49.71	CB2	63.40
FBA1	49.71	CB3	63.40
CK1	55.81	CD1	63.40
CK15	55.81	CD2	63.40
CG1	55.81	CD3	63.40
CK2	63.40	CD11	63.40

CK26	63.40	CM1	63.40
CK28	63.40	CM2	63.40
CK30	67.20	CM32	59.23
CK35	89.97	CM311	59.23
DK1	55.81	CM312	59.23
CA1	59.23	CM33	59.23
CA2	69.10	CM34	82.38
LK1	82.38	CM35	82.38
LK2	82.38	FEA1	67.13
DR1	60.53	FEA2	83.48
D15	60.53	FEA35	123.14
DR2	73.65	FCA1	62.43
D2	73.65	FCA2	70.44

Retail ceiling prices, which include the excise tax and installation of the replacement units in the refrigerator of the consumer, are as follows:

Model:	Ceiling price for each unit	Model:	Ceiling price for each unit
CF1	\$65.50	DRA2	\$97.00
CF11	65.50	DRB3	128.50
CF2	70.50	D30	128.50
CF21	70.50	DRB31	128.50
CF22	75.50	D31	128.50
CF28	75.50	DR3	143.50
CH1	65.50	DRE3	143.50
CJ1	65.50	DR35	143.50
CJ2	70.50	D35	143.50
CE34	99.00	SD40	98.00
CE340	99.00	CB1	83.50
CE140	65.50	CB2	83.50
FBA1	65.50	CB3	83.50
CK1	73.50	CD1	83.50
CK15	73.50	CD2	83.50
CG1	73.50	CD3	83.50
CK2	83.50	CD11	83.50
CK28	83.50	CM1	83.50
CK30	83.50	CM2	83.50
CK35	118.50	CM32	78.00
DK1	73.50	CM311	78.00
CA1	73.50	CM312	78.00
CA2	91.00	CM33	78.00
LK1	108.50	CM34	108.50
LK2	108.50	CM35	108.50
DR1	79.50	FEA1	89.50
D15	79.50	FEA2	110.00
DR2	97.00	FEA35	164.50
D2	97.00	FCA1	82.25
		FCA2	92.75

Any seller subject to this order who sells any of the refrigerator replacement units listed below to a purchaser located in Puerto Rico and receives from the purchaser the inoperative unit being replaced may add to his ceiling price for the unit as established by this order an amount no greater than twice the amount set forth below opposite the particular model number.

If he does not receive the inoperative unit from the purchaser he may add to his ceiling price no more than the amount set forth below:

Model:	Sales in Puerto Rico	Model:	Sales in Puerto Rico
CF1	\$7.07	CK15, CK2	
CF11	6.72	CK26	
CF21, CF2		CK28	\$5.72
CF22		CK30	6.27
CF28	7.83	CK35	6.42
CH1, CJ1	6.52	DR1, DR15	4.65
CE34, single	6.97	D2, DR2	5.74
evap.		DRA2	4.29
CE34, double	6.69	FEA2	6.09
evap.			
CK1	4.62	FEA1	4.43

### Newark Firm Names Mintz

NEWARK, N. J.—Appointment of Harry E. Mintz as general sales manager of Appliance Wholesalers here, has been announced by Al A. Eisenberg, proprietor. Emanuel Stein will direct the firm's service department.

## Westinghouse Starts 'Package Promotion'

(Concluded from Page 1, Column 4)

Crowley's shift of the appliance section from the seventh to the first floor was considered significant in that department stores generally value ground floor space at about 50% more than other floors. First-floor space ordinarily is reserved for fast-moving merchandise.

"The keynote of the department, as set up in Crowley-Milner's, is the combination kitchen-laundry with all electrical appliances in operation," Mr. Newcomb said. "It is the idea of demonstration to sell that makes it possible for the dealer to capitalize on such a floor display."

"It is more than just a display. It is a selling center of highest value. It is here that the consumer can come into the store and see a complete kitchen and laundry. She can visualize her own home kitchen and laundry in terms of modern planning."

"This showing the product 'on location' stimulates in the consumer a desire for more merchandise than she originally planned, and it encourages the selling of work centers, the first important step in living electrically."

He said studies by Westinghouse have shown that consumer interest in the kitchen-laundry combination is "very high," and that the display is an excellent traffic builder for the store. Since the combination would be outfitted with new merchandise as new models are announced, its life to the store is much longer than a conventional-type display, he claimed.

Preparation of the promotion was handled by J. E. Hugo, manager of

the central district for the division, and W. G. Snyder, district sales promotion manager, in cooperation with the advertising department, headed by Roger H. Bolin, and V. E. Freeland, director of department and furniture store sales.

Plans for the Crowley-Milner appliance department opening included a week-long newspaper and radio advertising campaign directed by E. L. Ellis, store publicity director; L. J. Leeson, appliance manager; and R. M. Fogel, merchandise manager. Other "build-ups" used were press and radio publicity releases, window displays, and store and elevator cards.

A major attraction on opening day was the appearance of Ted Malone, national radio network star famous for his "Between the Book Ends" broadcasts. Mr. Malone broadcast his Monday morning Westinghouse program direct from the appliance department, using a microphone set up in front of the kitchen-laundry display.

Earlier in the day, he spoke briefly at a special breakfast session held in the store for radio and newspaper writers and home economists from public utilities and schools. His broadcast was witnessed by a large group of householders.

The department opening was followed by special talks on "Simplified Patterns for Kitchen-Laundry Planning," by Dale Tate Balph, Westinghouse kitchen specialist. Mr. Balph presented his program three times daily on Tuesday, Wednesday, and Thursday, and was also on a quarter-hour show over a Detroit radio station.

In his talks, Mr. Balph worked with a miniature kitchen-laundry that can

be built into several different designs. He discussed each appliance and its relationship to the homemaker's workshop in the saving of time, labor, and money.

A Westinghouse promotion piece handed to visitors during the Crowley programs pointed out that "streamline efficiency is the keynote of this revolutionary new arrangement of a combined kitchen and laundry. . . ." The folder reproduced working drawings and the wiring diagram for the complete combination and listed the following Westinghouse equipment as needed:

Refrigerator, electric range, electric sink and dishwasher, Laundromat automatic washer, automatic clothes dryer, electric ironer, hot plate, roaster-oven, coffee maker, automatic waffle baker, automatic iron, fan, sandwich grill, toaster, radio, water heater, lighting fixtures, and various types of cabinets.

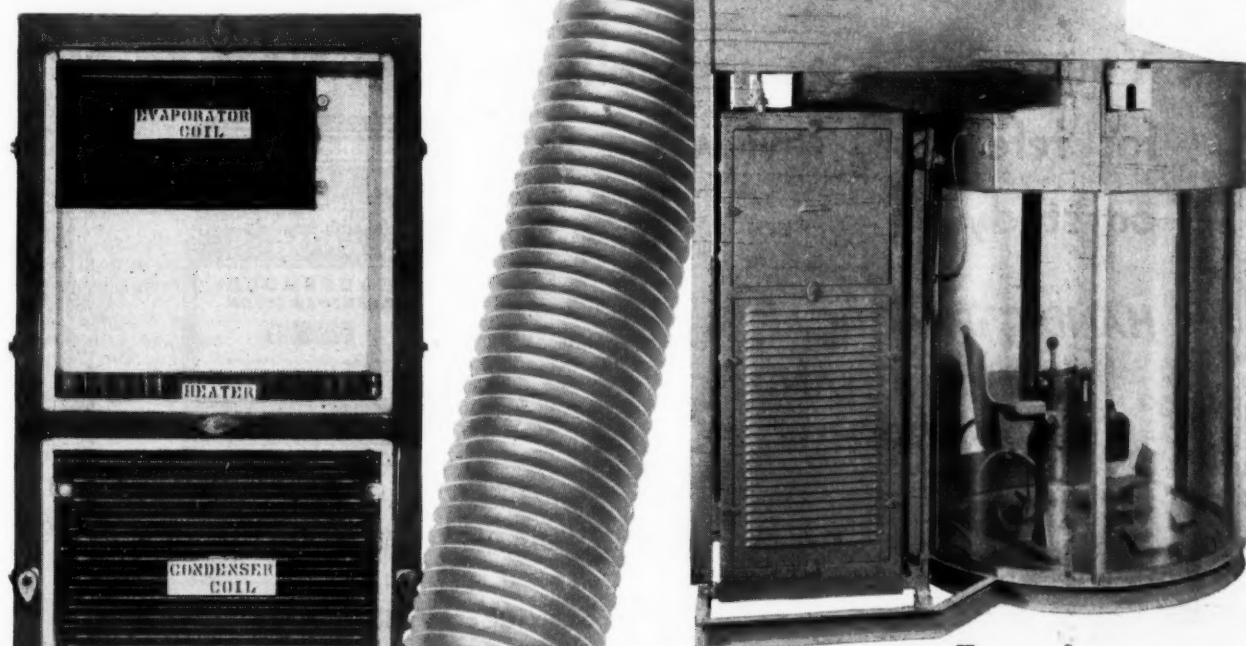
## Bank Displays Planned By Appliance Distributor

NEWARK, N. J.—Krich-Radischo, appliance distributor here, is sponsoring a merchandising method which calls for displays of appliances in banks by local dealers.

Time sales departments of the banks are interested, it is explained, because they find they have closer contact with contractors and builders of homes and ultimate consumers.

Most of the major items on display may be included in the mortgage or loan provisions of a home purchase and all items may be bought on credit arrangements made through the bank.

## WOLVERINE TRUFIN INCREASES EFFICIENCY OF CRANE OPERATION



The use of Wolverine Trufin produced a compact condenser coil that provides the interior of crane cabs with just the desired temperature conditions to maintain bodily comfort for the operator and encourage his utmost physical activity.

By virtue of having its fins integral with the tube itself, Wolverine Trufin possesses the qualities that will withstand the excessive vibrations to which crane cabs are normally subjected. The tube thus became an important part of these conditioning units manufactured by the Lintern Corporation, Berea, Ohio (makers of Lintern Aire-Rectifiers with air-cooled condensers for low maintenance).

"Condenser and evaporator coils," says the manufacturer, "are copper, using integral-type finned tubing for high efficiency and long life." Trufin, 3/8" O. D., with 9 fins per inch was used.

This illustrates another of the many applications where Wolverine Trufin is an important factor in increasing and maintaining the efficiency of a manufacturer's product. Let us tell you more about how Trufin is helping others. Perhaps Trufin can bring you economies you are not aware of.

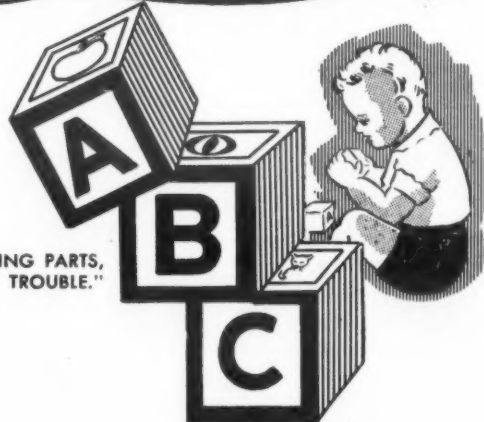
THE ROTARY COP SAYS:



The Construction of  
**ROTARY SEALS**  
is as simple as ABC

WEBSTER defines the word Simplicity as follows: "Quality or state of being free from complexity, intricacy or elaborations—consisting of few parts."

The above is a perfect definition of ROTARY SEALS which have won world wide recognition for domestic and commercial service. ROTARY SEALS are constructed on the principle uppermost in the minds of research engineers—"THE FEWER WORKING PARTS, THE LESS DANGER OF TROUBLE."



The precision and careful workmanship which goes into ROTARY SEALS is the result of specialized attention to the design and manufacture of this one product.

**ROTARY SEAL COMPANY**

2020 N. LARRABEE ST., CHICAGO 14, ILL.

Canadian Office: 382 Victoria Avenue, Montreal 6, Quebec, Canada



**WOLVERINE  
TUBE  
DIVISION**

Calumet & Hecla Consolidated Copper Company  
1411 CENTRAL AVENUE • DETROIT 9, MICH.

WHO'S WHO AMONG WOLVERINE REPRESENTATIVES

**A. S. KINGLERLEY**  
1411 CENTRAL AVENUE  
DETROIT 9, MICHIGAN

Serves southeastern Michigan and  
northerly section of Ohio.

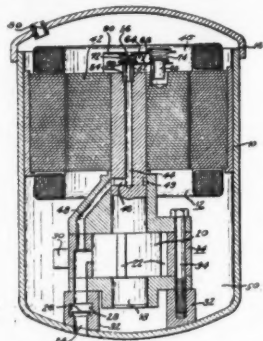


## PATENTS

Week of July 23

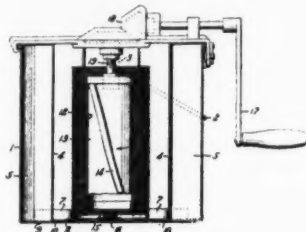
(Continued)

2,405,042. **REFRIGERATING APPARATUS.** Alex A. McCormack, Dayton, Ohio, assignor to General Motors Corp., Dayton, Ohio, a corporation of Delaware. Application Sept. 27, 1943, Serial No. 503,949. 6 Claims. (Cl. 230-29.)



1. In a refrigerating system having a high pressure portion in which refrigerant is maintained at condensing pressure and a low pressure portion in which the refrigerant is maintained at evaporating pressure, a rotary compressor for withdrawing refrigerant from the low pressure portion and for discharging the refrigerant at a higher pressure into said high pressure portion, a compressor operating shaft, a refrigerant passage on said shaft connecting the high pressure portion and the low pressure portion, a pressure operated valve carried by said shaft controlling the flow through said shaft passage, and centrifugal means exerting an opening force on said valve, said centrifugal means including a lost motion connection whereby the valve is free to move to the open position in response to pressure changes without hindrance from said centrifugal means.

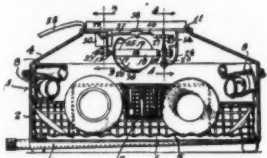
2,405,091. **COOLING APPARATUS FOR BOTTLED BEVERAGES.** Alexander M. Culbreth, Valdosta, Ga. Application June 27, 1945, Serial No. 601,779. 7 Claims. (Cl. 62-149.)



1. A cooler for bottled beverages and the like comprising a receptacle for containing the bottles of beverages and a body of liquid coolant in contact therewith, and means for agitating and circulating the coolant around said bottles, said means including a stirrer rotatable within the body of coolant, and relatively fixed baffle means partially surrounding the bottles of beverages and serving to direct the circulation of the coolant therearound.

Week of August 6

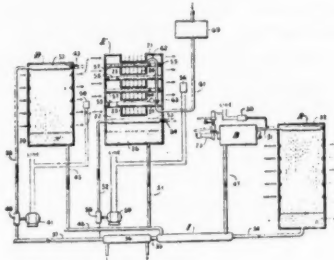
2,405,147. **HOUSE TYPE DISHWASHER.** Clayton O. Kauffman, Fullerton, Calif. Application July 27, 1944, Serial No. 546,778. 6 Claims. (Cl. 299-67.)



1. A spraying mechanism for dishwashers comprising: a gimbal frame adapted to rotate about a horizontal axis; a spraying wheel journaled about an axis transverse to said gimbal frame axis whereby said spraying wheel is simultaneously rotatable about its own axis and about the axis of said gimbal frame; means for supplying water to said gimbal frame; means carried by said gimbal

frame and rotatable therewith for directing a stream of water against said spraying wheel whereby the water is thrown tangentially therefrom; and means for rotating said gimbal frame.

2,405,169. **REFRIGERATION.** Otis B. Sutton, North Canton, Ohio, assignor to The Hoover Co., North Canton, Ohio, a corporation of Ohio. Application July 6, 1942, Serial No. 449,897. 9 Claims. (Cl. 62-6.)

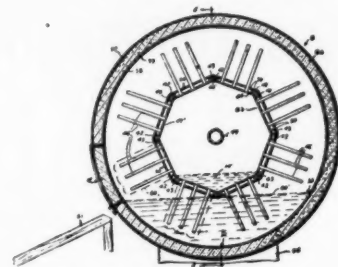


1. That improvement in the art of air conditioning which includes the steps of dehumidifying air to be conditioned by passing such air in contact with a body of an absorbent for water, subsequently cooling said air by passing it in heat exchange relation with a body of evaporating water, promoting the evaporation of said water by absorbing water vapor above said water in another body of said absorbent, uniting said bodies of absorbent and absorbed water vapor and removing water vapor from said absorbent by passing the absorbent in contact with air.

2,405,272. **ICE MANUFACTURE.** Arthur D. Smith, Canton, Ohio, assignor to Barium Steel Corp., Canton, Ohio, a corporation of Delaware. Application July 29, 1943, Serial No. 496,564. 4 Claims. (Cl. 62-172.)

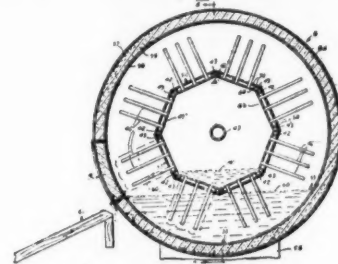
1. The method of making an ice block which includes the steps of intermittently during the freezing operation immersing a group of spaced parallel tubular bodies in a bath of water, internally refrigerating the bodies, to freeze the water to form ice entirely around the exterior of each

body progressively outward from the outer surface of each body until the ice formed



on the group of bodies merges into one block.

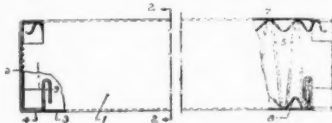
2,405,273. **ICE MANUFACTURING APPARATUS.** Arthur D. Smith, Canton, Ohio, assignor to Barium Steel Corp., Canton, Ohio, a corporation of Delaware. Application July 29, 1943, Serial No. 496,565. 9 Claims. (Cl. 62-106.)



1. In refrigeration apparatus and the like, a hollow body having an exterior and an interior and including a group of spaced tubes, each tube having a closed end, means containing a bath of liquid adjacent to said tube, means for moving the hollow body for intermittently im-

mersing portions of the tubes and their closed ends in said bath of liquid to pick up successive films of liquid entirely surrounding the exterior portions of the tubes, and means operatively associated with the interior of the body for internally refrigerating the tubes and freezing the successive films of liquid to form a frozen solid entirely around each tube progressively outward from the outer surface of each tube until the frozen solid formed on the group of tubes merges into one block.

2,405,293. **OPEN-FACED AIR FILTER FRAME.** Verner Dahlman, Louisville, Ky., assignor to American Air Filter Co., Inc., Louisville, Ky., a corporation of Delaware. Application April 7, 1944, Serial No. 529,978. 5 Claims. (Cl. 183-71.)



1. An open-faced air filter frame for a filter medium having opposite end edges comprising: U-shaped frame members forming peripheral side and end walls and face flanges on each wall, the flanges at each face of the frame overlapping at the corners to provide corner lap joints; and means for sealing the opposed end edges of the filter medium along opposed transverse edges of the face flanges adjacent one face of the cell so that each end space, defined within the frame by each end wall and its flanges, communicates with the space on one side of a secured filter medium; at least one peripheral wall being arranged to provide an opening at one end, exposing the inner face of the adjacent corner lap joint sufficiently to permit opposed inner and outer face portions of the lap joint to be engaged by spot welding equipment.

## CLASSIFIED ADVERTISING

RATES for "Positions Wanted" \$2.50 per insertion. Limit 50 words.

RATES for all other classifications \$5.00 per insertion. Limit 50 words.

ADVERTISEMENTS set in usual classified style. Box addresses count as five words, other addresses by actual word count.

## POSITIONS AVAILABLE

HELP WANTED: Residential manager for Central States Refrigeration Supply jobber. Salary and commission plus pension and profit sharing plan. Territory now established and producing good sales. Opportunity for one who is interested in selling refrigeration supplies wholesale to dealers, service men and contractors. Box 2060, Air Conditioning & Refrigeration News.

## EQUIPMENT FOR SALE

NEW CONDENSERS—Surplus stock 2,500 air cooled. Suitable heavy duty 1/2 hp. Approximate dimensions 16 1/4" wide, 13" high, 2" deep—double row. Packed in original cartons. \$8.50 each in lots of 10. F.O.B. Newark, N. J. DOUGLAS EQUIPMENT CORP., 74 Colden St., Newark 4, N. J.

FOR SALE: 10,000 new aluminum ice cube trays in three popular sizes. Also air-cooled and water-cooled remanufactured condensing units 1/4 up to 2 hp. Write for particulars. EDISON COOLING CORP., 310 E. 149th St., Bronx 51, N. Y.

FAIRBANKS BUTCHERS BEAM SCALES 600 lb. capacity. Brand new. \$29.50 net each. F.O.B. Philadelphia. Limited quantity. Order a stock today! Terms: 25% with order. Balance c.o.d. or sight draft. GENERAL REFRIGERATOR & STORE FIXTURE CO., 856 N. Broad St., Philadelphia, Pa.

IMMEDIATE DELIVERY 20 cu. ft. all-steel glass top Freezers: upright glass top or open, with superstructure; Ice Cream, Frozen Food open and closed cabinets; Reach-ins, Wood and Metal Storage Boxes; all glass Sliding Door Dairy Refrigerators; Beverage Coolers; Air Conditioning Units; Motors 5-20 hp., etc. FRIGITEMP CORP., 931 Bergen St., Brooklyn 16, N. Y. Main 2-9093.

NATIONALLY KNOWN ice cream cabinets for immediate delivery—with or without machines. 4, 6 or 8 holes. Inquire FRIGITEMP CORP., 931 Bergen St., Brooklyn 16, N. Y.

FROSTEDAIR Refrigerated Cabinets 10 cu. ft. for commercial food and ice cream storage, suitable domestic use. Sliding glass top or 6 rubber lids, stainless steel rounded top, 18 gauge steel construction. 5" proven insulation, hermetically sealed hull, "Freon-12" refrigerant. Now available. FROSTEDAIR CORP., 801 Greenwich St., New York 14, N. Y. CHelsea 3-4900.

CONDENSING UNITS—complete with motors now available with the MAGIC-TEMP DRY BEVERAGE COOLERS. IMMEDIATE DELIVERY. Your territory may be open—Write now. MAGIC-TEMP COOLER CO., 311 John St., Utica 2, N. Y.

SECTIONAL STORAGE COOLERS Prompt delivery, from stock. 6x8x8" high and 8x10x8" high. 3 1/2 inches fibre glass insulation, seasoned lumber. Special sizes built to order. Send me complete specifications for quotation. Prompt service given. M. E. ROBERTSON, Manufacturers Agent, 2913 Columbia Road, Madison 5, Wis.

CARBONATORS: 3 hp. package refrigeration units; 8 and 10 ft. bottle coolers with compressors; 200 gas conversion burners, with controls. All of this equipment available for immediate delivery. Phone, wire, or write ROYAL STORE EQUIPMENT DISTRIBUTORS, INC., 103 E. 3rd at Walnut, Cincinnati 2, Ohio. Parkway 1859-60.

DRY BEVERAGE COOLERS, under bar type, manufactured by General Refrigerators Corp., with heavy duty coil and blower. Stainless steel sliding covers and track. Well crated. Six foot—21 cases—\$175. Eight foot—30 cases—\$200. F.O.B. Los Angeles. Send for descriptive literature. ROYAL REFRIGERATION CO., 5071 West Pico Blvd., Los Angeles 35, Calif.

SEALED CROSLLEY TERMINALS. Installed from the outside in a few minutes without opening the compressor. Corrects leaky terminals on all Crosley "F-12" units. Set of three \$6.75 (Part No. 1020). Installation tool \$1.65. Immediate delivery. Money-back guarantee. SEALED UNIT PARTS CO., 3097 Third Ave., New York 56, N. Y.

FRIGIDAIRE METER-MISER Terminals. Installed from the inside. Fits compressors with bottom-mounted terminals. (Part No. 1060.) Set of three \$2.85. WESTINGHOUSE TERMINALS. Installed from the inside. (Part No. 1030.) Set of three \$2.85. SEALED UNIT PARTS CO., 3097 Third Ave., New York 56, N. Y.

NORGE CHECK VALVES. For open-type units. (Part No. 1040). \$2.55 each. SEALED NORGE terminal packing washers. For repairing leaky terminals. Installed from the outside in a few minutes. (Part No. 1050). Three sets (9 washers) \$1.00. SEALED UNIT PARTS CO., 3097 Third Ave., New York 56, N. Y.

ROOM AIR CONDITIONERS—window models 1/2 ton with hermetically sealed unit-coils, dehumidifies, circulates, exhausts, ventilates, filters air. Attractive price. Immediate shipments. TALBERT-THOMAS COMPANY, 2457 S. Michigan Avenue, Chicago, Ill. Calumet 3710.

FOOD-BEVERAGE COOLERS—Combination 6 1/2 cu. ft. wet or dry bottle storage with additional 7 cu. ft. food or bottle storage. Have 1/4 horsepower twin cylinder units. Stainless steel sliding top-refrigerator door for food compartment. Very low price. Immediate shipment. TALBERT-THOMAS COMPANY, 2457 South Michigan Avenue, Chicago, Ill.

APPROXIMATELY 150 lockers draw and door type. These are standard lockers. Used but in good condition at good discount. D. M. THOMAS, 1236 Broad St., Augusta, Ga.

CUSTOM BUILT—10 1/2 cu. ft. Low Temp. Test Cabinet (to minus 70° F.). Self Contained 1 hp. Two stage Freon 12-lift tops counterbalanced. Used two weeks in war plant. Also 75 lb. bulk Ice Makers—Marine type—New. Write for details and blueprints. Box 2061, Air Conditioning & Refrigeration News.

## FRANCHISES WANTED

NEVADA WHOLESALER with a large number of accounts, desires added lines of representation in Refrigeration parts, units and supplies. Interested in both Ammonia and Low-Pressure valves, controls, fittings, etc. Write Box 2068, Air Conditioning & Refrigeration News.

## FRANCHISES AVAILABLE

NEWEST TYPE Frozen Food Cabinet Choice Territory Still Open. SPIRO-FREEZE CO., 1077 Castleton Ave., Staten Island, N. Y.

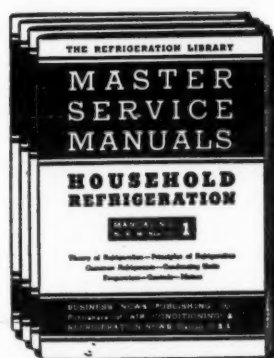
## BUSINESS OPPORTUNITIES

DEALERS WANTED for lower Michigan to sell Sanilite Ultra-Violet Rays with G. E. Standard Lamp for meat display cases, processing rooms, and walk-in coolers. Immediate delivery. Excellent discount. Also available other refrigeration items. Write or call the F. D. STELLA PRODUCTS CO., 15111 Livernois, Detroit 21, Mich., UNiversity 34989.

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## SERVICE INFORMATION

MANUAL NO. 4—Service information on 12 makes of household electric refrigerators including Absopure, Apex, Atwater Kent, Coldspot (Sunbeam and Sears), Copeland, Dayton (Niagara), Fairbanks-Morse, Graybar Ig-Kold, Iceberg, Liberty, Rice, and Servel. 129 illustrations. 128 pages. Price \$1.00.

## GRUNOW

MANUAL NO. 5—Grunow household refrigerator service methods, for all float valve and Carrene Meter models. The vacuum cycle of operation. Step by step procedure for removing and replacing all parts and for all other service operations. Chapters: (1) Refrigerant and cycle of operation; (2) head pressure checking, leak detection, and purging; (3) Carrene meter and checking charge; (4) removing and replacing unit parts; (5) thermostats and electrical equipment, testing capacitors, transformers, and relays; (6) service problems and remedies; and (7) key specifications of 1933-37 models useful in replacing parts. 68 pages. Price \$1.00.

HANDY SIZE—"The Refrigeration Library" manuals are 6 x 8 1/2 inches in size. All are well printed and have durable paper covers. These books are authentic and easy to understand.

FOREIGN SHIPMENT—The minimum extra charge for each package of books shipped outside the United States is 50 cents. Up to six \$1.00 books may be shipped in one package.

BUSINESS NEWS PUBLISHING CO.

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## Maximum Locker Rental of \$2 a Cu. Ft. Established by OPA for Vermont Plants

WASHINGTON, D. C.—A maximum average rental price of \$2 per cubic foot per year for each tier of frozen food storage lockers of 15 cu. ft. or less has been fixed by OPA for the State of Vermont.

The ceiling was announced by the agency in Supplementary Service Regulation 73, RMPR 165. Also included in the regulation are maximum prices for food processing and other services related to locker rental.

Text of the order follows:

PART 1499—COMMODITIES AND SERVICES  
[RMPR 165, Supp. Service Reg. 73]  
FROZEN FOOD LOCKER SERVICE IN THE STATE OF VERMONT

A statement of the consideration involved in the issuance of this supplementary service regulation, issued simultaneously herewith, has been filed with the Division of the Federal Register. For the reasons set forth in that statement and under the authority vested in the Price Administrator by the Emergency Price Control Act of 1942, as amended, the Stabilization Act of 1942, as amended, and Executive Orders Nos. 9250, 9328, 9599, and 9651, Supplementary Service Regulation No. 73 is hereby issued.

§ 1499.714 Services covered. (a) This regulation applies to the rental of frozen food storage lockers of 15 cu. ft. or less, and to the services furnished in connection with the operation of such lockers, in the State of Vermont. Frozen food storage lockers of more than 15-cu. ft. capacity and incidental services offered in the course of business or trade are covered by Maximum Price Regulation 586.

(b) Applicability of other regulations. Except as provided herein to the contrary, all provisions of Revised Maximum Price Regulation 165 and any other applicable service regulation shall apply to the services covered by this regulation.

(c) Maximum price determination. (1) The maximum average rental price for locker space shall be \$2 per cubic foot per year for each unit or tier of lockers. The rental price for any one locker shall not exceed \$2.50 per cubic foot per year.

Example: If a tier or unit contains five

lockers having a capacity of 6 cu. ft. each, the total available space would be 30 cu. ft. for which the total rental charge (at \$2 per cubic foot) could not exceed \$60. However, the rental price for the individual lockers in the unit or tier may vary according to the standards established by the operator of the locker plant just so long as (1) the average rental price for the entire unit does not exceed \$2 per cubic foot, and (2) the rental price for any one locker in the unit or tier does not exceed \$2.50 per cubic foot.

(2) The maximum price for the rental of overflow space shall be \$0.01 per pound per month, but the total charge shall not exceed the monthly rental charge for the locker.

(3) The maximum prices that may be charged for food processing services and for miscellaneous services in connection with the rental of frozen food storage lockers shall be those amounts set forth in Appendix A.

NOTE: If you are the seller of any of the commodities upon which the services are performed, and such services are within the provisions of any regulation governing the sales of such commodities, then you may not make the additional charges listed in Appendix A.

(4) No charges other than those specified in this regulation may be made for the rental of frozen food storage lockers or for any service in connection therewith, except:

(i) An additional charge may be made for insurance. Provided, That by the terms of the insurance policy the benefits in case of loss are paid directly to the customer.

(ii) A customer may be required to pay a key deposit, provided such deposit is refundable upon the return of the key.

(d) Posting. Every seller subject to this regulation shall within 15 days after the issuance of this regulation, post on his premises in such a place and manner as to be plainly visible to the purchasing public, a statement setting forth the services and the maximum prices established by this regulation.

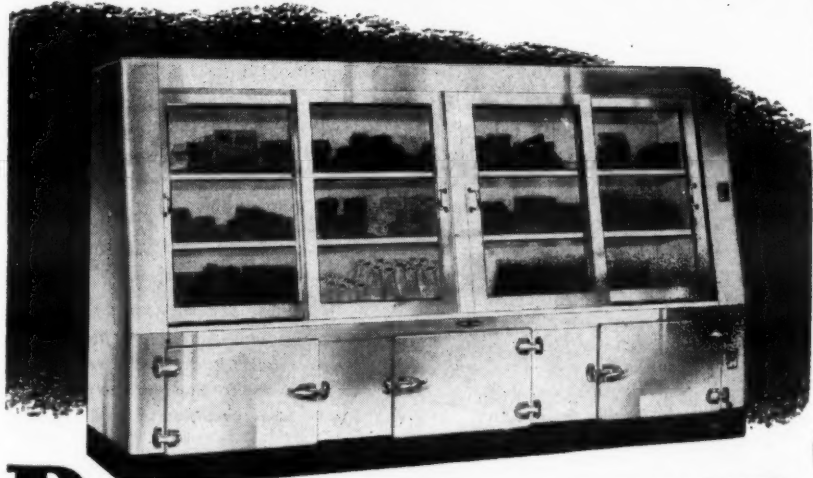
(e) Previously established prices. If any locker operator has previously established prices for the services covered herein based on his prices of March, 1942, under Revised Maximum Price Regulation 165, and has properly filed such

maximum prices on or before Dec. 31, 1942, he may now elect to retain those maximum prices, provided a statement of such election is filed with the Vermont District Office, setting out the services and the maximum prices and the date they were filed. Such statement must be filed within 30 days after the issuance of this regulation.

### APPENDIX A MEAT PROCESSING CHARGES Beef, lamb, and veal

	Maximum prices (per lb.)
Chill and age (no further processing) .....	\$0.01
Cut and wrap (including labeling and dating) .....	.01½
Cut only .....	.01
Quick freeze only (including placing in locker) .....	.01
Bone and roll meat (weight after boning) .....	.02
Grind (actual poundage) .....	.02
Chill, age, cut, wrap and freeze (including labeling, dating and placing in locker) .....	.03
Complete service—chill, age, cut, wrap, bone and roll roast, grind hamburger, wrap, label, date, freeze and place in locker .....	(*)
Corning of beef .....	
Salt brine .....	.02
Sweet pickle brine .....	.05
Pork .....	
Chill .....	.00½
Cut only .....	.01
Chill, cut, wrap and freeze (including labeling, dating and placing in locker) .....	.02
Grinding of fat for lard .....	.02
Grind fat and render lard .....	.05
Sausage making—grind, season (seasoning furnished by customer), wrap, freeze (including labeling, dating and placing in locker) .....	.03½
Sausage making—grind, season (seasoning furnished by locker), wrap and freeze (including labeling, dating and placing in locker) .....	.04
Sausage making—grind, season, bag (including bag), wrap and freeze (including labeling, dating and placing in locker) .....	.06
Smoking of hams and bacon .....	.02
Curing of hams and bacon .....	.03
Smoking and curing of hams and bacon .....	.05
Smoking and curing of hams and bacon (when performed for locker operator by other concern) .....	(†)
Slicing of bacon .....	.05
Venison .....	
Skin, chill, age, cut, wrap and freeze (including labeling, dating, and placing in locker). (If skinned—use beef schedule) .....	(‡)
Poultry .....	
Chill, cut if desired, wrap and freeze (including labeling, dating and placing in freezer) .....	.02
Chill, draw, cut if desired, wrap and freeze (including labeling, dating and placing in freezer) .....	(§)
Glaze poultry .....	.02
Fish .....	
Chill, wrap and quick freeze (including labeling, dating and placing in locker) .....	.02
Glaze .....	.02
Chill, glaze, wrap and freeze (including labeling, dating and placing in locker) .....	.04
Fresh Fruits and Vegetables .....	
Freeze (including placing in locker) .....	.02
Freeze (when carton is marked and heat sealed by locker operator—including placing in locker) .....	.03
Blanch and pack .....	.02
Prices for processing fruits and vegetables do not include cost of containers.	
Miscellaneous .....	
Minimum service charge .....	(¶)
This regulation shall become effective Sept. 9, 1946.	
* \$0.04½ on original carcass weight (minimum size quarter carcass).	
† Cost (including transportation) plus 1¢ per lb.	
‡ \$6.00 per animal.	
§ \$0.04, or 15¢ per bird.	
¶ \$0.15 each.	

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ANOTHER CASE OF  
Good Refrigeration  
Engineering

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now. Ask us about  
available equipment.

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All porcelain exteriors and interiors. Equipped with patented and exclusive features.

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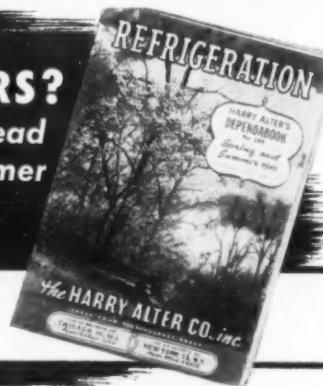
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## There's Ice (and Sales) In Them Thar Hills

MOUNTAIN VIEW, Ark.—This is a small town. Damned small, in fact. Population 745. But its only drugstore boasts a new York Flakice machine. And it wasn't a case of super-salesmanship, either.

It seems that E. C. Webb and W. C. McCubbins, Jr., who operate the New Royal drugstore, were tired of having to run over to Batesville 39 miles away every day for 400 lbs. of ice. McCubbins, who saw war service in the Navy, remarked that he wished they could get hold of a DER-10, which they had had aboard ship, but he feared it would be impossible to find.

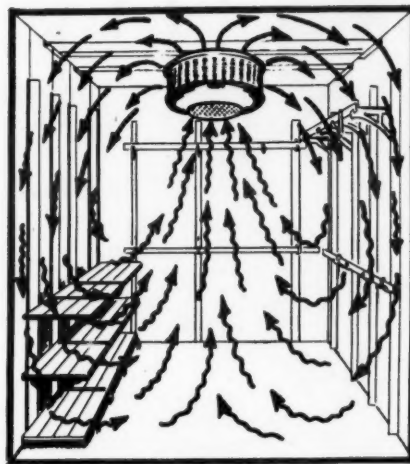
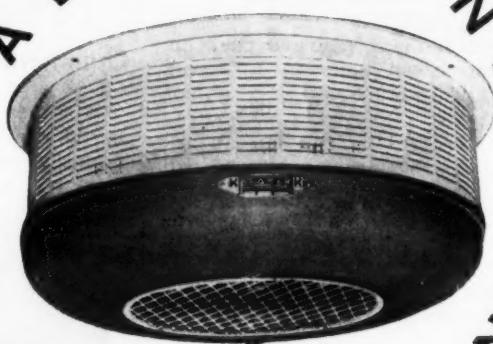
Webb, however, set out in search, and wound up in Little Rock, Ark., at the Selle Equipment & Contracting Co., York distributorship. There it was—a York Flakice machine.

John W. Selle, the distributor, says that when Webb came back to take delivery, Webb told him he had contracted to supply 1,200 lbs. of the ribbon ice daily at a dollar per 100 lbs. to regular commercial customers in Mountain View on a cash-and-carry basis. This will more than pay for the unit.

Recently Webb phoned Selle to send over another unit for a friend.

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Even temperatures  
High humidities  
Uniform distribution  
Out of the way location

The Kramer Radial Cooling Unit is suspended from the ceiling where it does not interfere with usable space. Cool air, discharged radially from around the complete circumference of this unit, mixes with the warm air at the ceiling of the refrigerator as it spreads and descends resulting in a minimum of temperature and humidity variation of the box.

Accurate ratings and easily used Rapid Selection Tables assure adequate refrigeration and high humidities.

Write for Catalog R-142-N

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COILS THAT COUNT"  
specify **KRAMER**

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HEAT TRANSFER EQUIPMENT

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9/16/46



## Detroit Opens Drive On 'Gyp' Firms

(Concluded from Page 1, Column 2) received twice as many complaints against repairmen as it did during the same period last year, according to Mr. Carrico.

The complaints range from overcharging for services to refusal to return the customer's merchandise, he said.

One complainant charged that his refrigerator was sent to a repair shop in August, 1945 and still has not been returned.

Several letters to the bureau reported that a service man would call for a faulty washing machine, radio, or other appliance and take it to the store for an estimate of the work needed. The service man would promise to call the next day and give the customer the estimated cost of the work.

The customer would then not hear from the repairman for several days. When he worriedly called the repair shop, he would learn that the appliance had already been repaired and a bill for \$65 or so attached, said the bureau.

If the customer insisted that he had not authorized any repair work, the service man would offer to cut the price. When the customer still refused to pay, the service man would inform him that he would restore the appliance to its former condition, but that the customer would have to pay a \$25 or \$30 labor charge.

In one letter, the complainant even said that the repairman threatened to take the appliance apart so that it could never be repaired again, according to the bureau.

Another letter said that a customer had sent his refrigerator to a repair shop four times and was charged \$15 to \$20 each time. He asserted that the machine never was and still isn't fixed.

One letter reported that the complainant had sent a faulty though guaranteed refrigerator to a firm for repair again and again. The refrigerator spent most of the life of the guarantee in the repair shop and was there when the guarantee expired.

The customer received a whopping bill for repairs after the guarantee had expired.

Some complained that repair firms would not return the refrigerator after it had been taken to the shop for repairs.

Mr. Carrico said that he now has two men from the police department helping him investigate complaints and that the county prosecutor's office also has a man assigned to that task.

He pointed out that in many cases, the firms complained against are ones that have been accused of unfair dealings in the past. He hopes that the proposed ordinance requiring license and bond will prevent dealers of this type from getting into business.

## Dealer Rules--

(Concluded from Page 1, Column 5)

It was explained by NHA and CPA officials as merely a transfer of authority for the priorities from the CPA, a wartime agency which is expected to dissolve at the end of next March, to the NHA which derives its authority from both the War Powers Act and the Veteran Emergency Housing Act. This, it was said, assures continuation of the priorities beyond the life of the CPA.

## Chamberlin Appliance Sold

BLYTHERVILLE, Ark.—The Chamberlin Appliance Co. has been sold to Isaac E. Jenkins of Paragould and Carl A. Jenkins of Kennett, Mo.

## Harry Pugrant Opens New Appliance Outlet

NIAGARA FALLS, N. Y.—Harry Pugrant, Inc., new appliance and furniture store, has been opened at 358 Third St. The store building, which has been idle for many years, has been completely renovated and modernized with indirect recessed illumination, decoration in pleasing colors, and a modern arrangement of suites of furniture and appliances which permits better inspection by prospective purchasers.

Harry Pugrant, owner, was formerly associated with the Arnson Furniture Co. as a part owner, associate buyer, and in sales. He was recently discharged from service after two years in the Pacific.

## OPA Hopes to Improve Speed on Decontrol

WASHINGTON, D. C.—Plans to amend its Second Revised Procedural Regulation 13, governing the filing of petitions for decontrol of prices on non-agricultural commodities, have been announced by OPA.

The proposed revision, which will be issued within several days, will permit members of OPA industry advisory committees to vote either by mail or at committee meetings in deciding whether petitions for review shall be filed with the Price Decontrol Board after denial of a decontrol petition by the Price Administrator.

The amendment also will permit the calling of committee meetings on seven days' notice, where the meeting

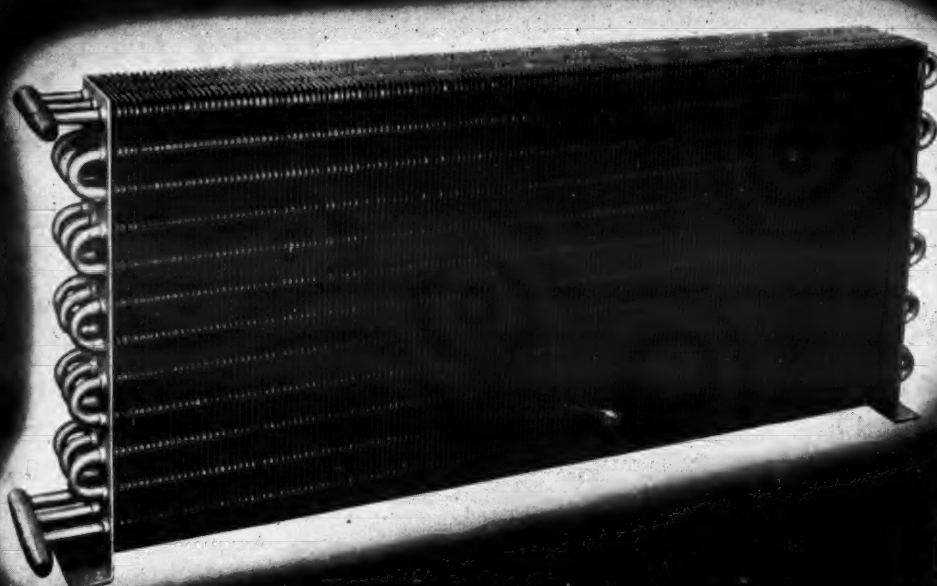
is to be held for a committee vote on a petition for review.

Procedural Regulation 13 now requires that two weeks' notice be given on all industry advisory committee meetings. The price control act provides that petitions for review of the Price Administrator's denial of decontrol must be filed with the Decontrol Board within 30 days of his decision. OPA said this left only two weeks for committee action.

After consultation with Decontrol Board officers, OPA decided that voting by mail or meeting would be permitted. They expressed the view, however, that voting by mail would be used only in exceptional cases. The exchange of views and information possible at committee meetings makes it likely that members will prefer this course of action as far as possible.

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*meet the most exacting requirements*

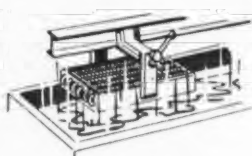


The wide-spread preference for BUSH Condensers by refrigeration engineers, installation and maintenance men is a tribute to BUSH engineering, technical skill, planning and design. BUSH Condensers are giving reliable, constant, dependable service, day after day, year after year, often under the most severe conditions.

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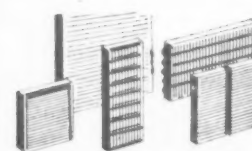
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# BUSH HEAT TRANSFER PRODUCTS



Standard Coil Condenser



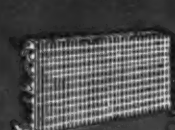
Water-Cooled Unit Condenser



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Condenser with Fan



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## VISOLEAK

VISOLEAK detects even the smallest leaks before they cause damage to expensive refrigeration systems. Years of use prove it safe, economical, easy to use.

### NEW CHARGING SET

The VISOLEAK Charging Set was developed to inject VISOLEAK, add refrigerant oil or re-charge sealed units. For use on all types of refrigeration systems without danger of introducing air or foreign matter.

Charging Set—complete with hoses \$7.50  
Filler only—without hoses 6.00

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